

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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09/922,656

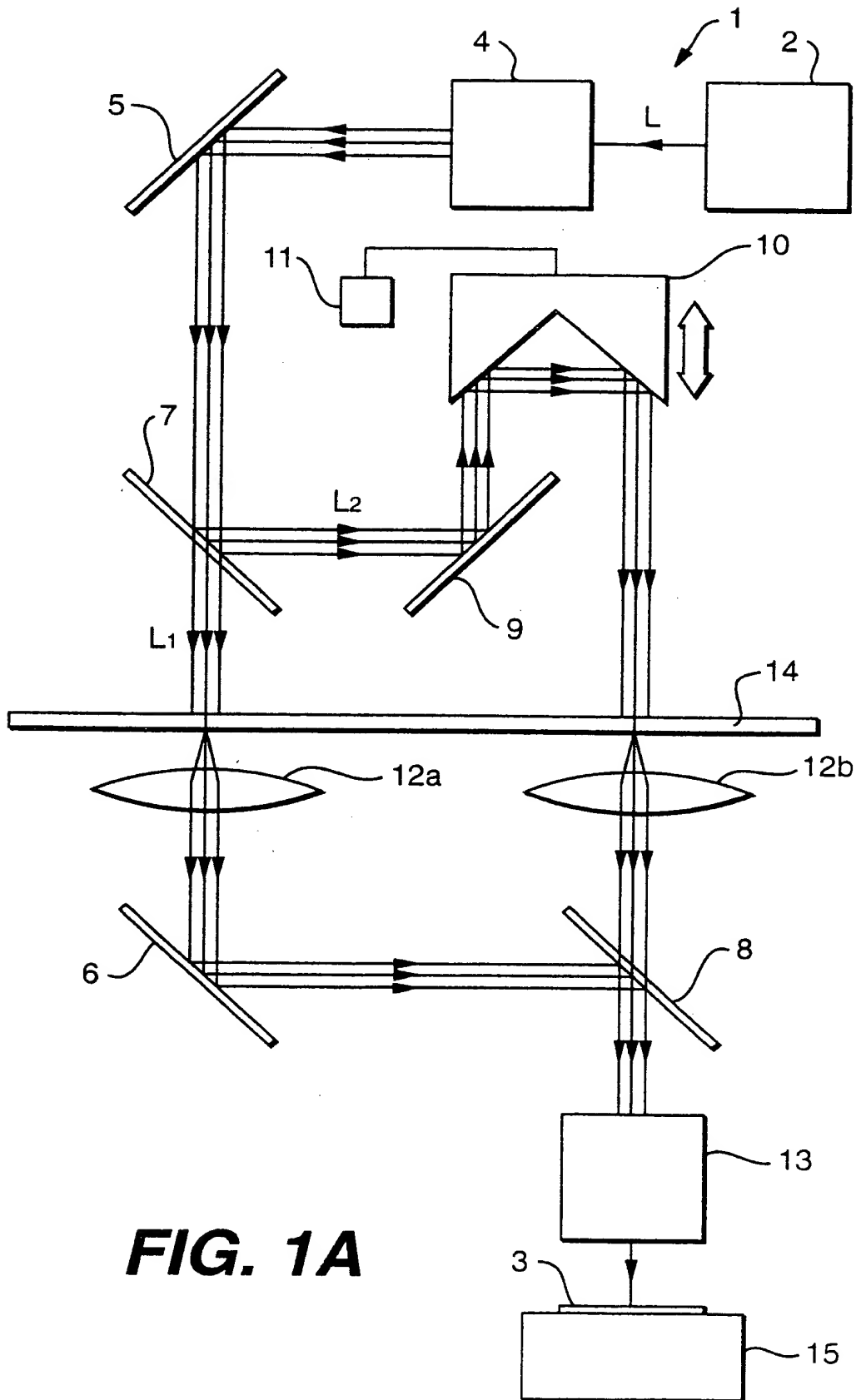


FIG. 1A

APPROVED	O.G. FIG.	
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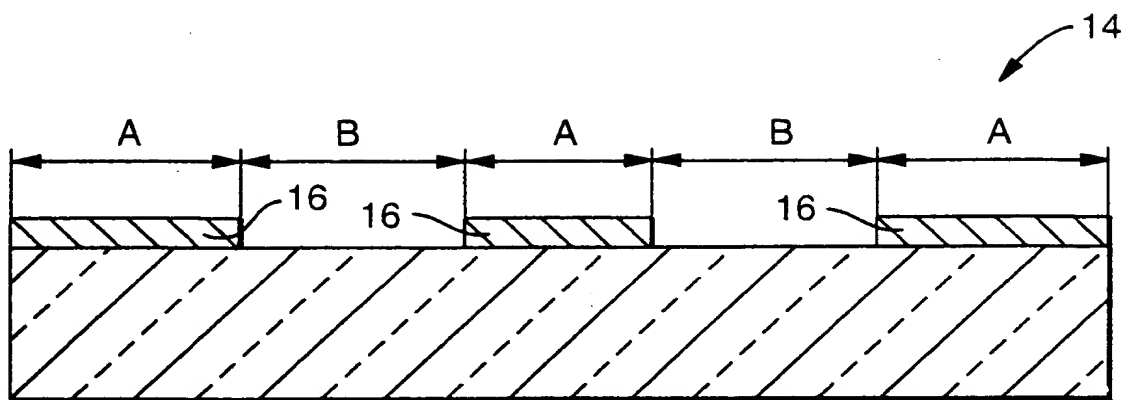


FIG. 1B

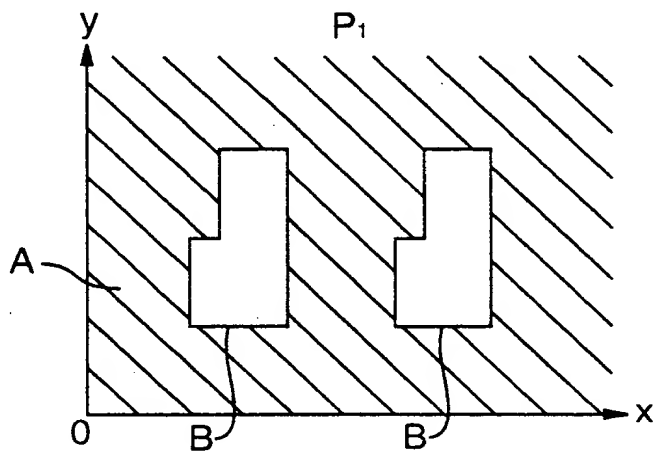


FIG. 1C-1

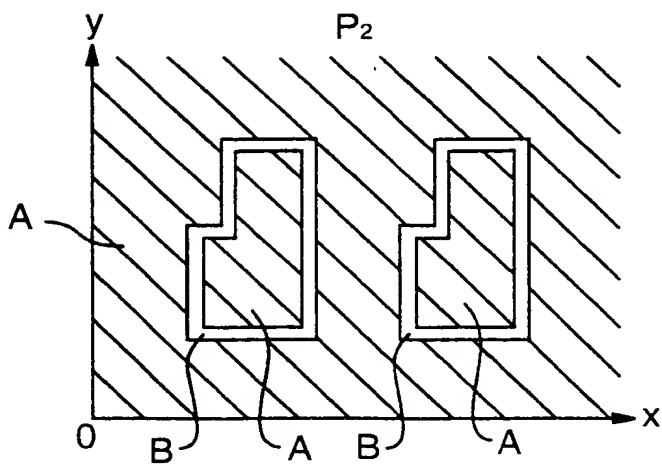


FIG. 1C-2

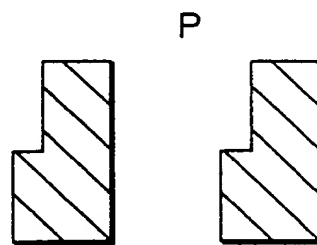


FIG. 1C-3

FIG. 1D-1

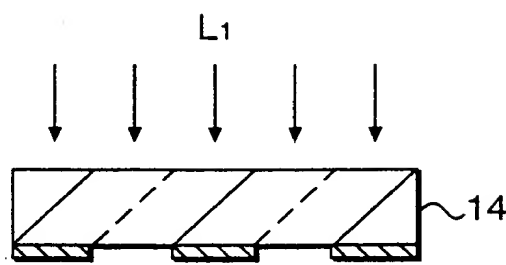


FIG. 1D-2

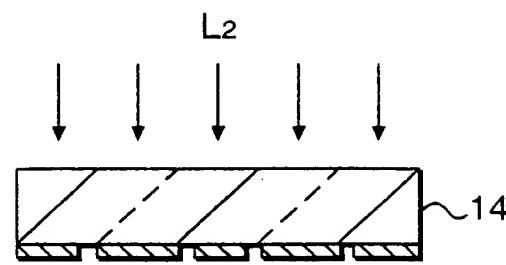


FIG. 1D-1'

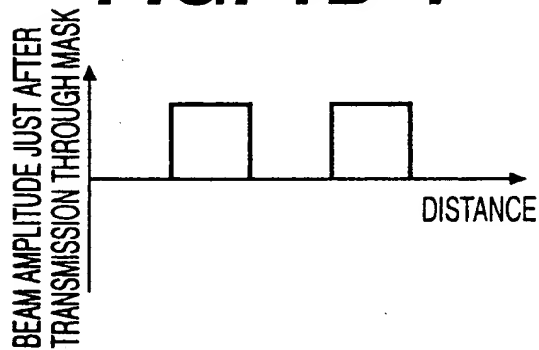


FIG. 1D-2'

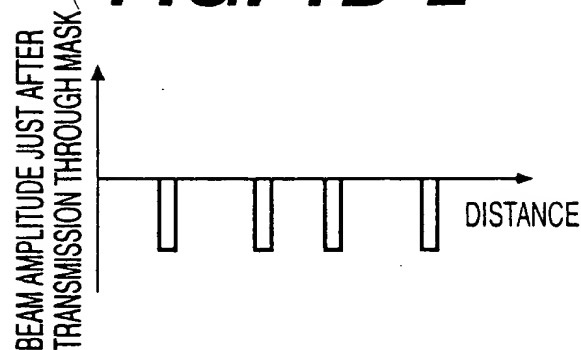


FIG. 1D-3

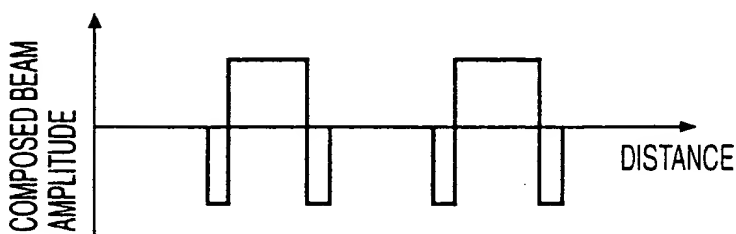


FIG. 1D-4

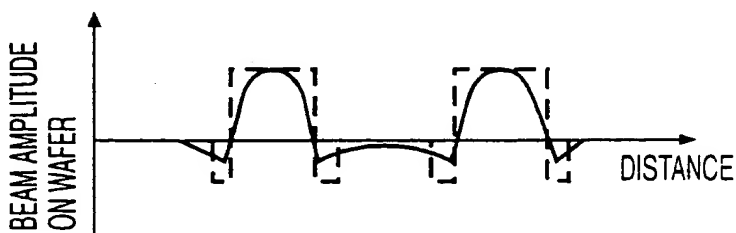
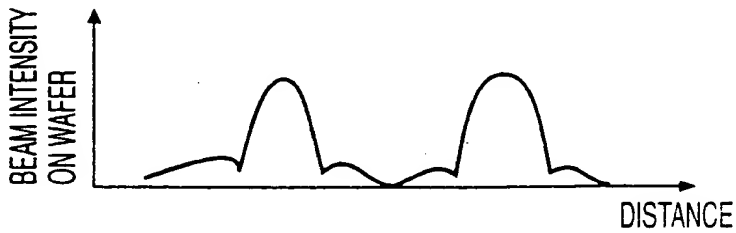


FIG. 1D-5



APPROVED	O.G. FIG.	
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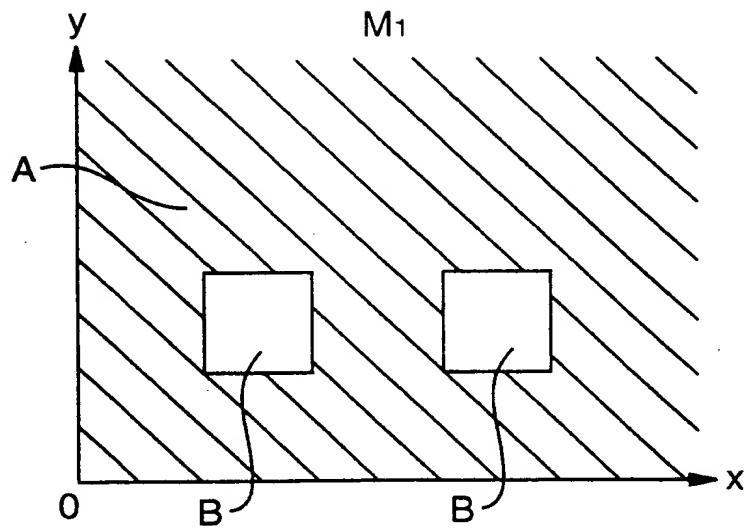


FIG. 1E-1

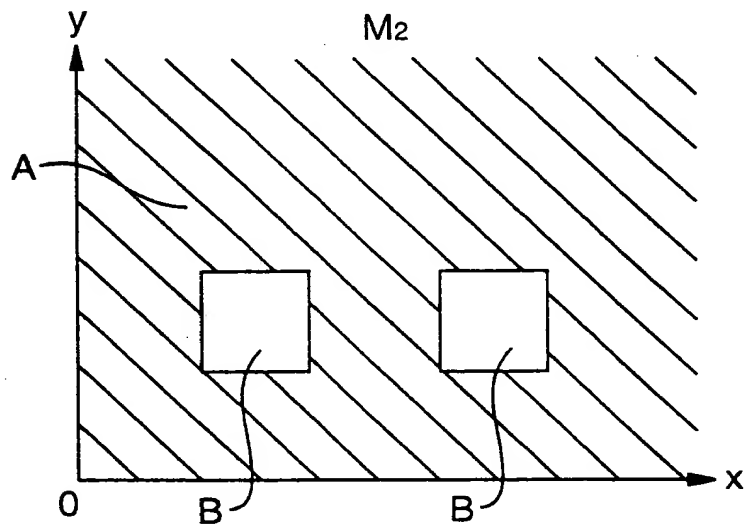


FIG. 1E-2

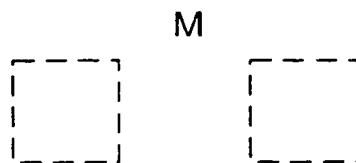


FIG. 1E-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

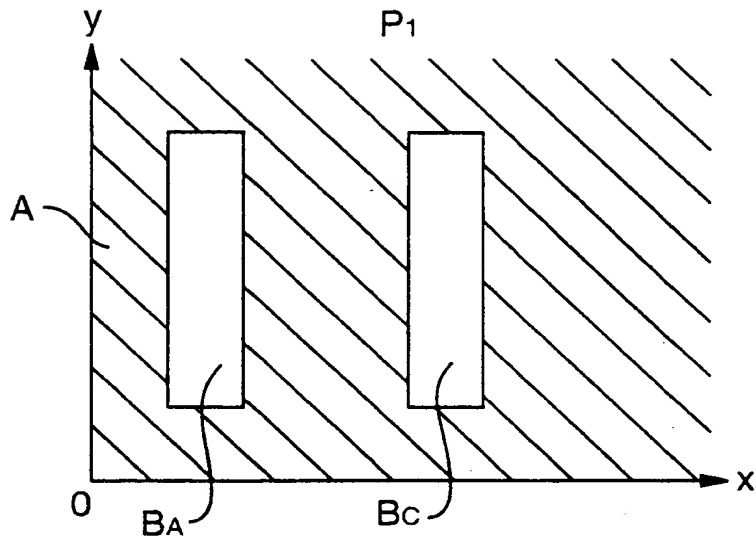


FIG. 1F-1

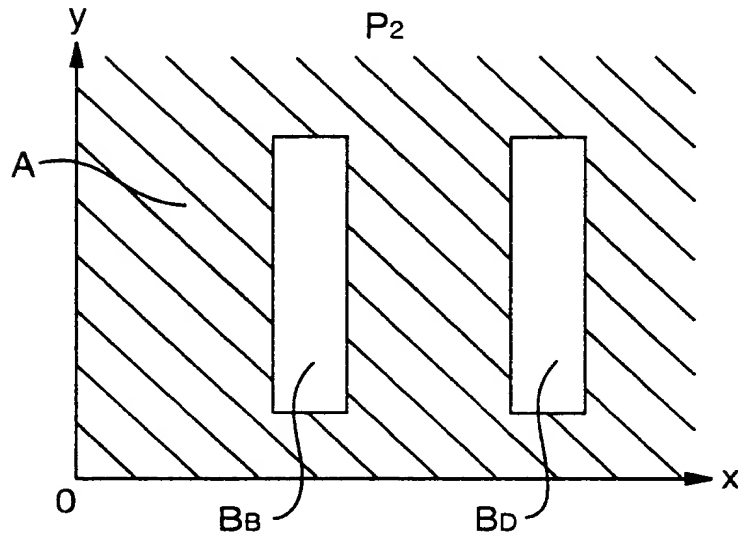


FIG. 1F-2

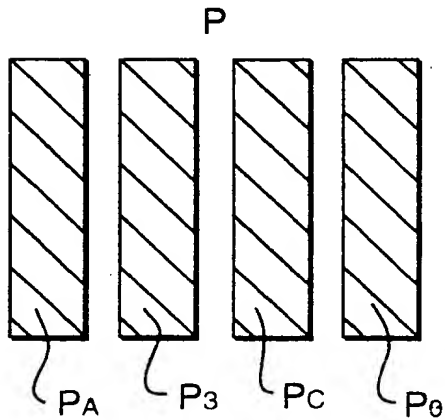


FIG. 1F-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 1G-1

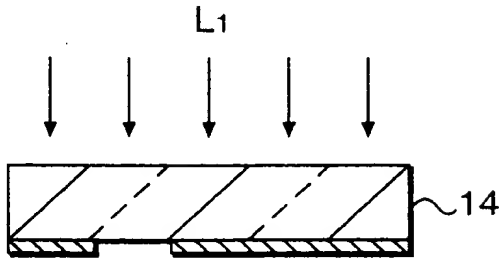


FIG. 1G-2

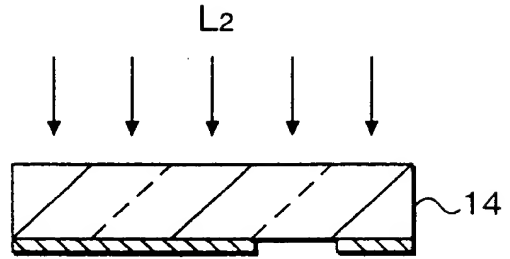


FIG. 1G-1'

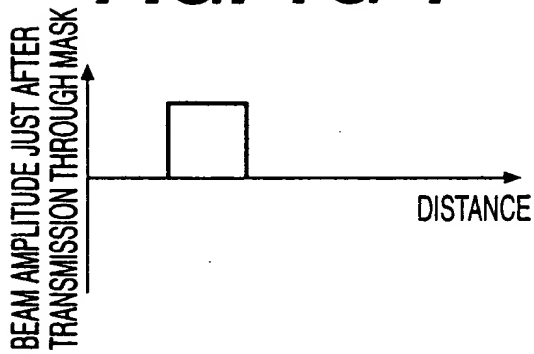


FIG. 1G-2'

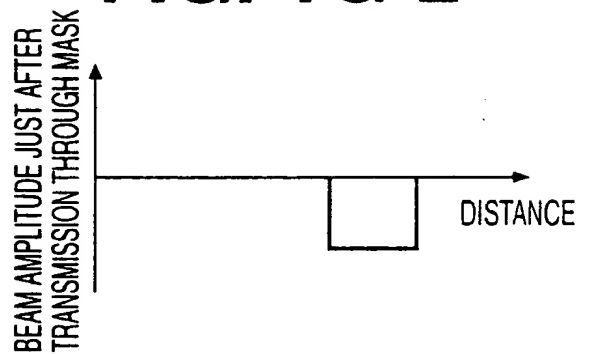


FIG. 1G-3

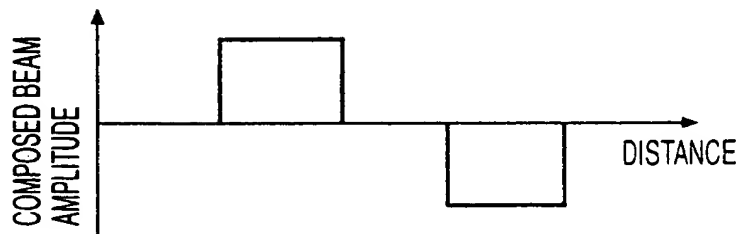


FIG. 1G-4

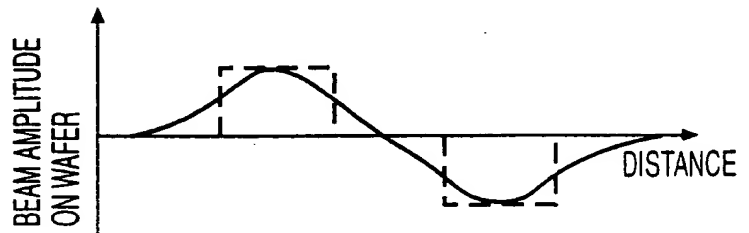
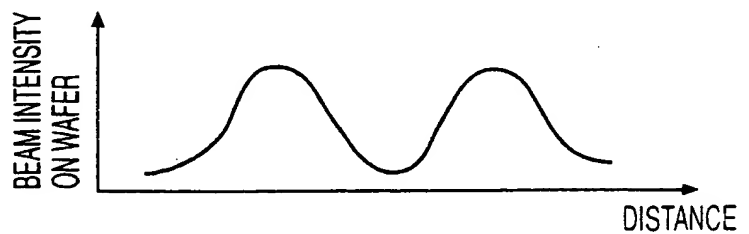


FIG. 1G-5



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

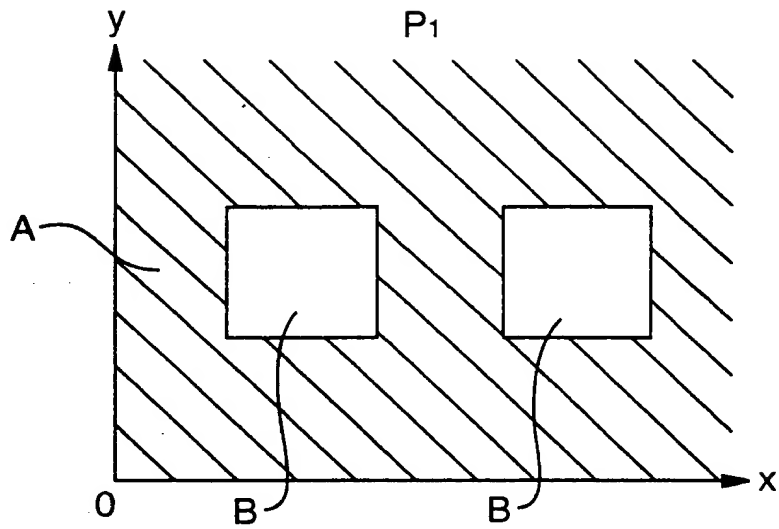


FIG. 1H-1

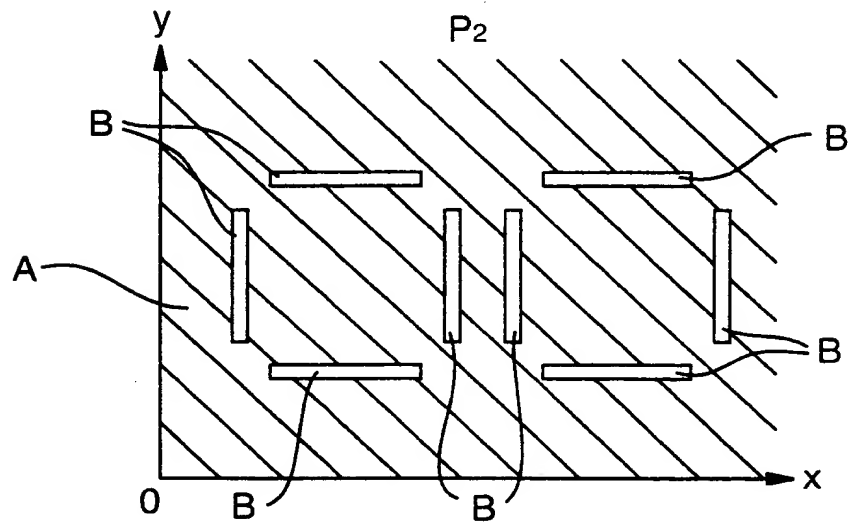


FIG. 1H-2

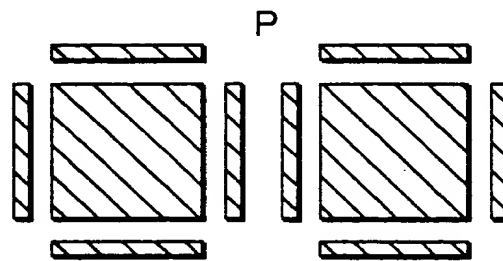


FIG. 1H-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1I-1

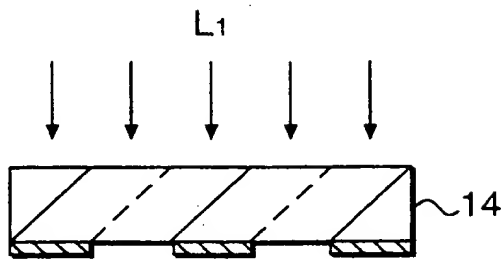


FIG. 1I-2

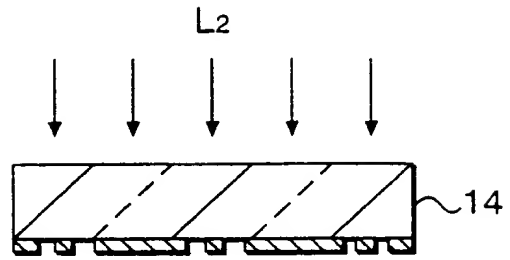


FIG. 1I-1'

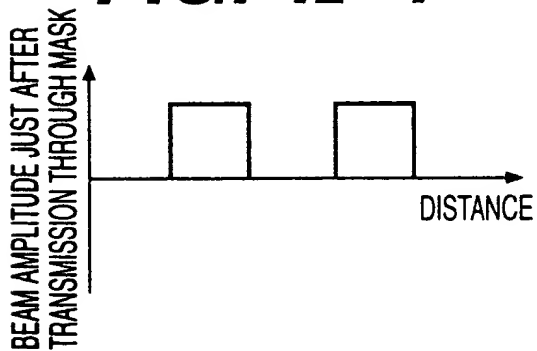


FIG. 1I-2'

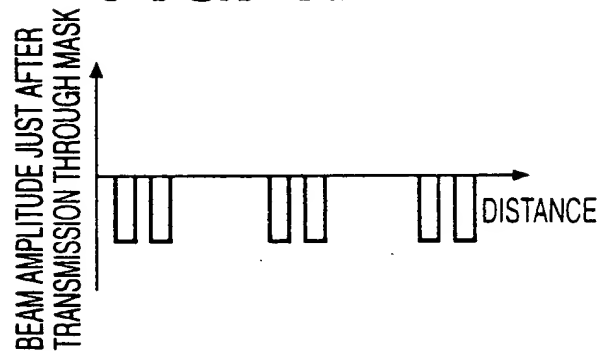


FIG. 1I-3

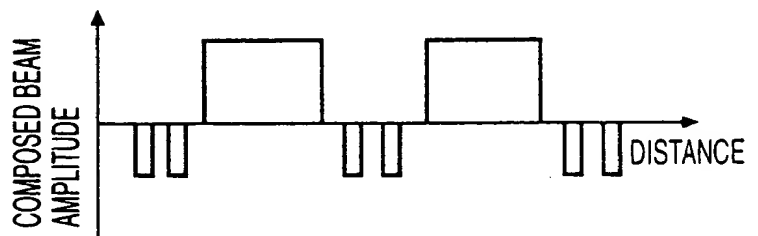


FIG. 1I-4

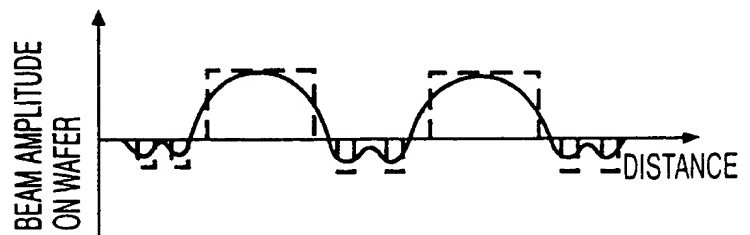
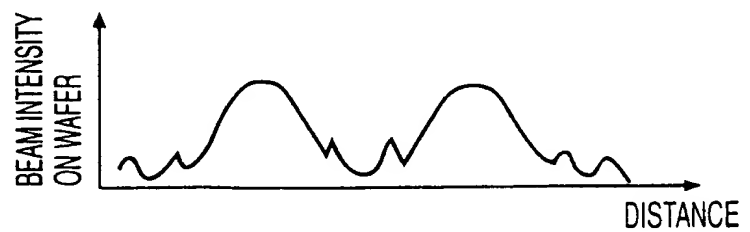


FIG. 1I-5



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 1J-1

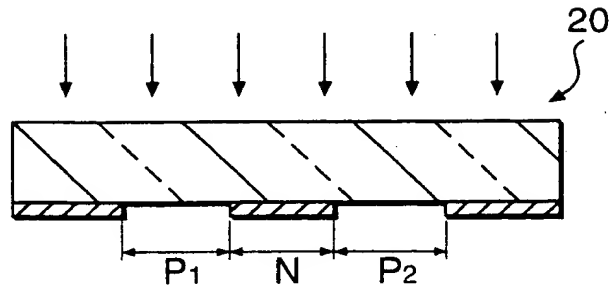


FIG. 1J-2

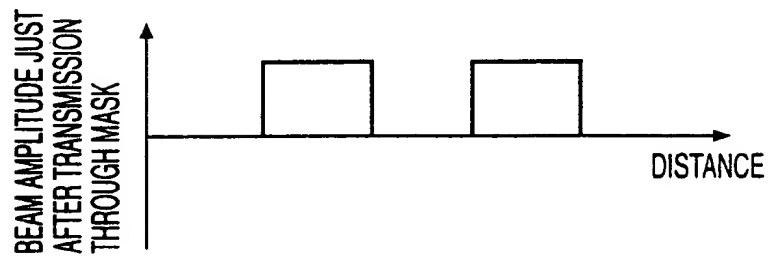


FIG. 1J-3

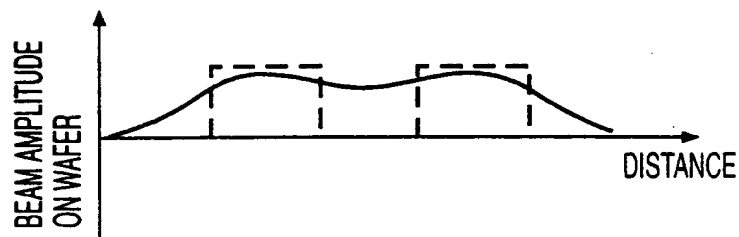
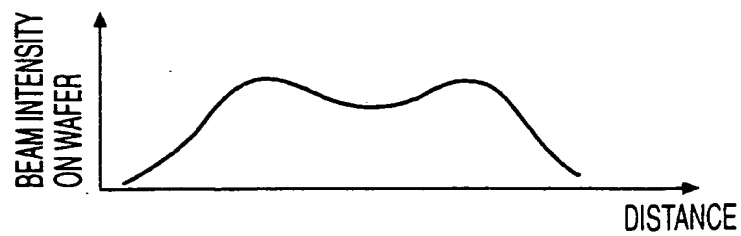


FIG. 1J-4



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 1K-1

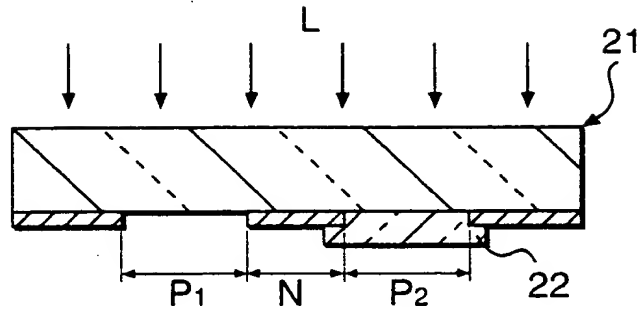


FIG. 1K-2

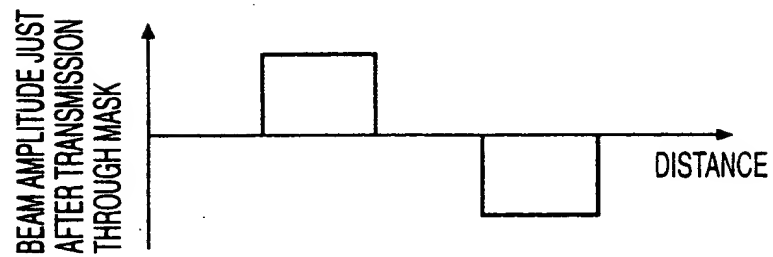


FIG. 1K-3

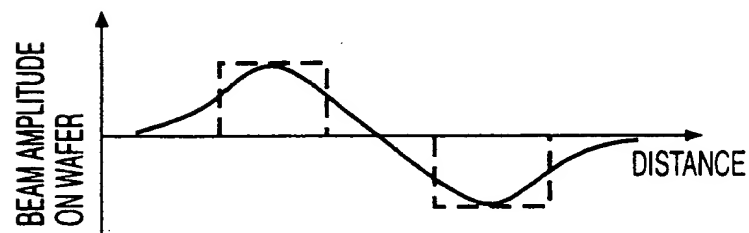
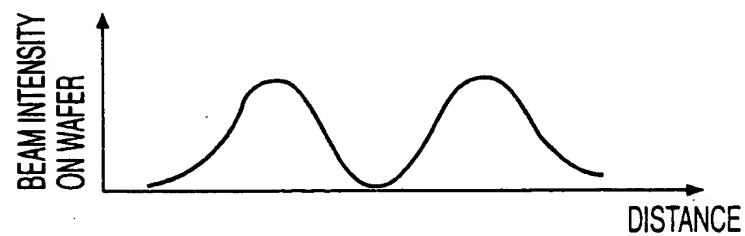


FIG. 1K-4



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

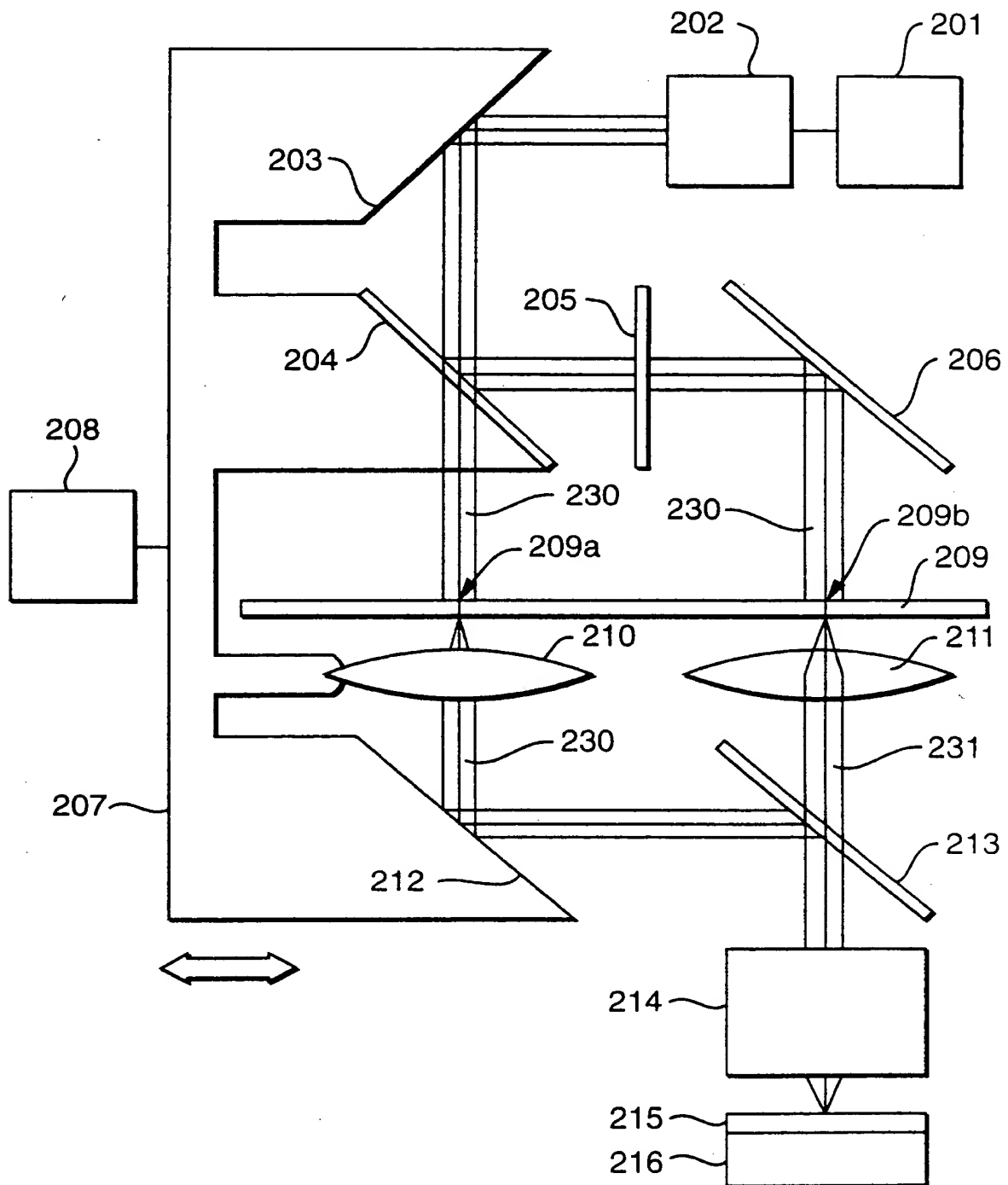


FIG. 2A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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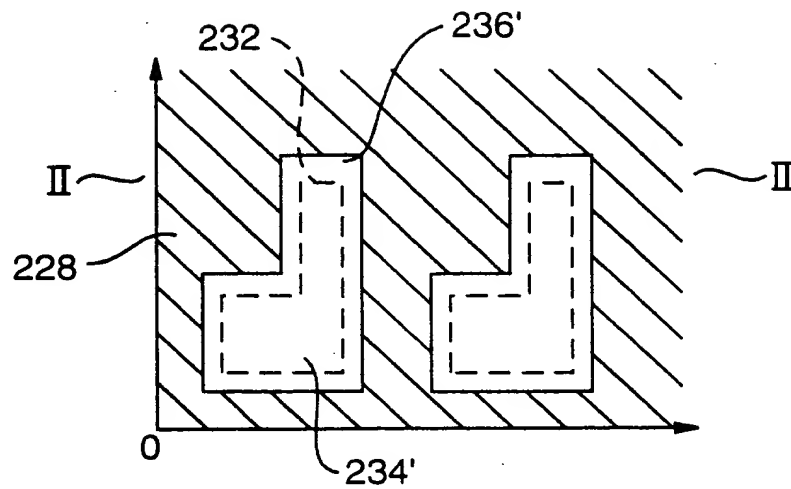


FIG. 2B-1

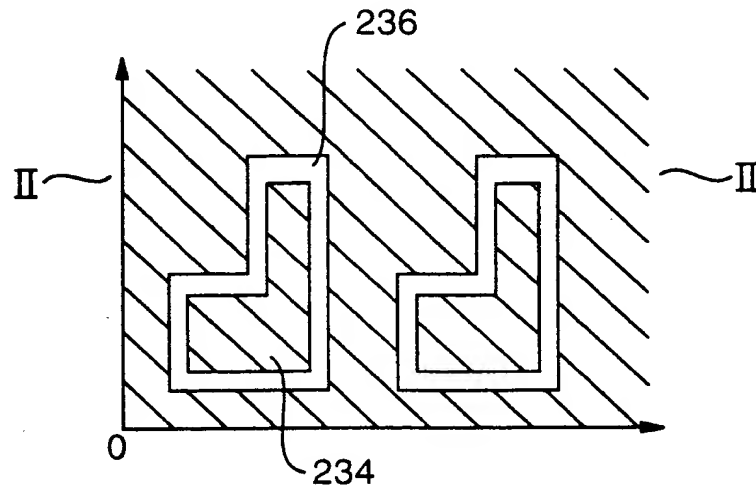


FIG. 2B-2

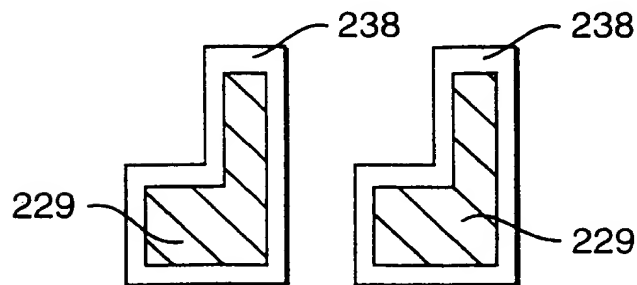


FIG. 2B-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

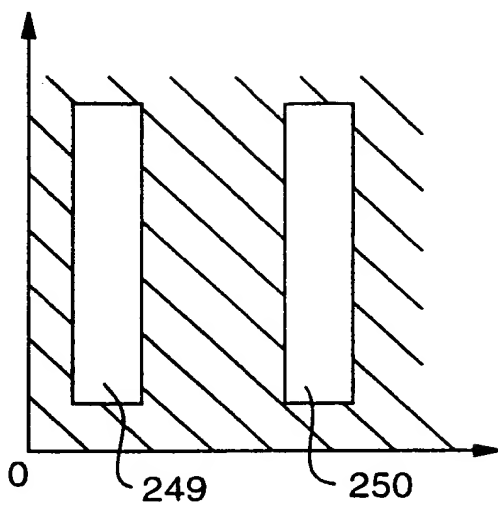


FIG. 2C-1

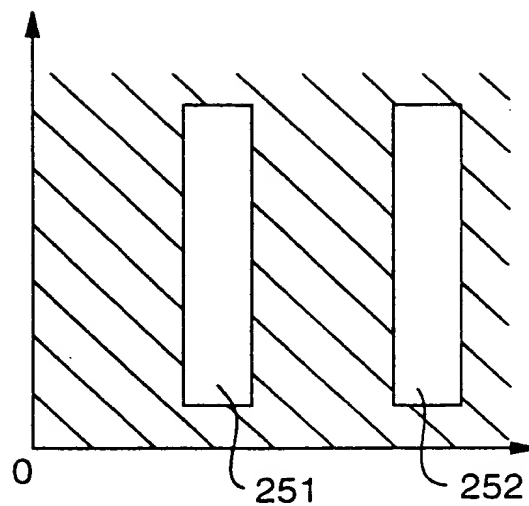


FIG. 2C-2

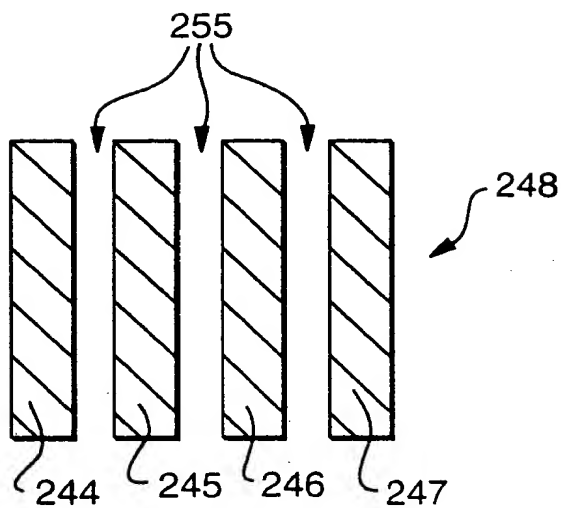


FIG. 2C-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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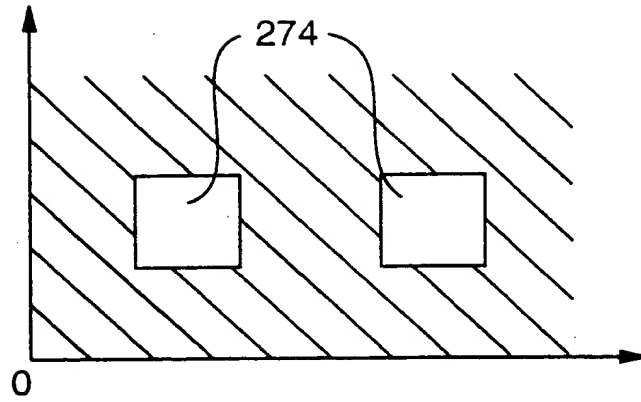


FIG. 2D-1

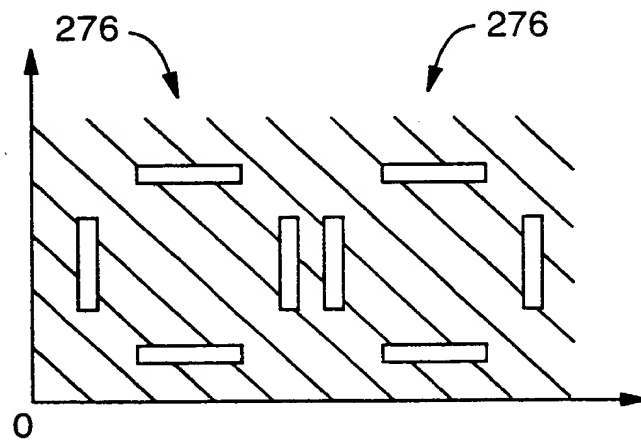


FIG. 2D-2

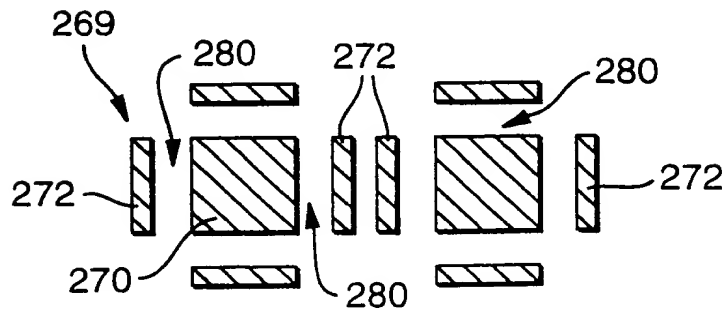


FIG. 2D-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 2E-1

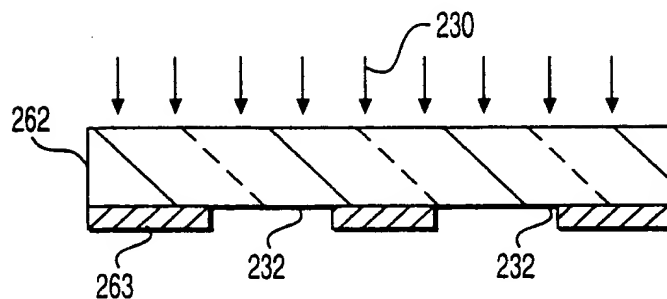


FIG. 2E-1'

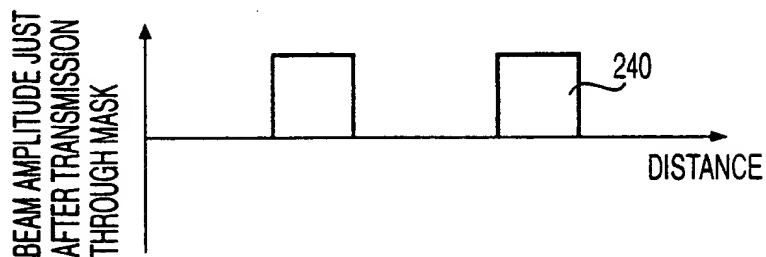


FIG. 2E-2

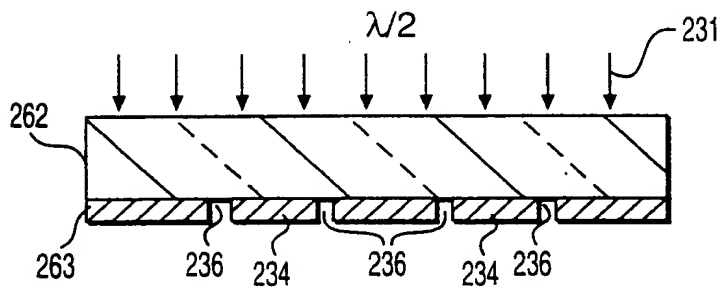
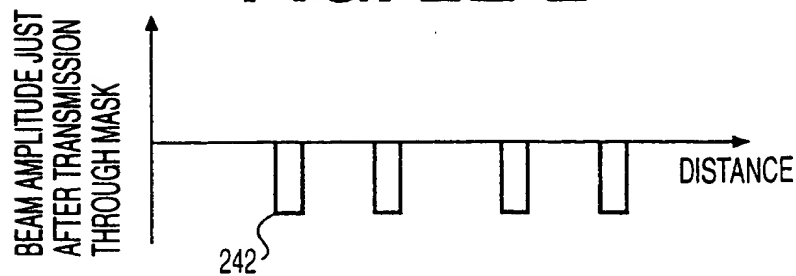


FIG. 2E-2'



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 2E-3

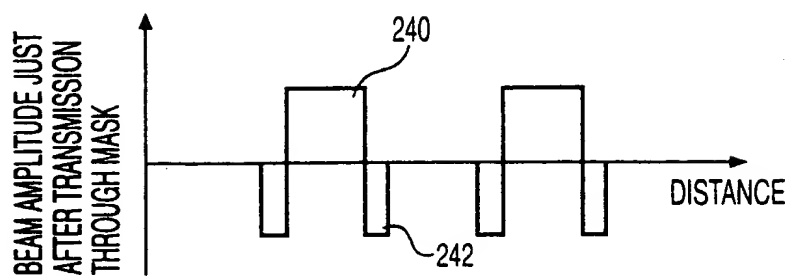


FIG. 2E-4

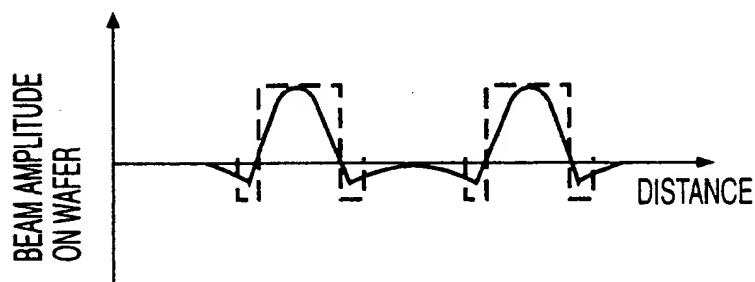
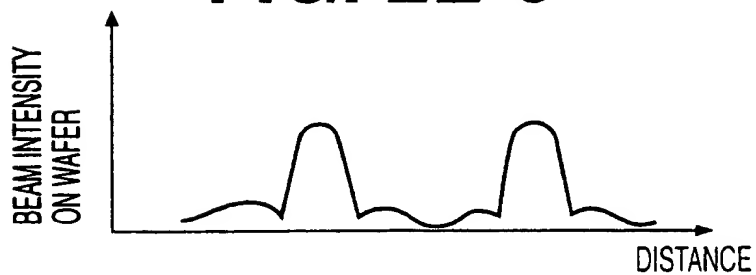


FIG. 2E-5



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 2F-1

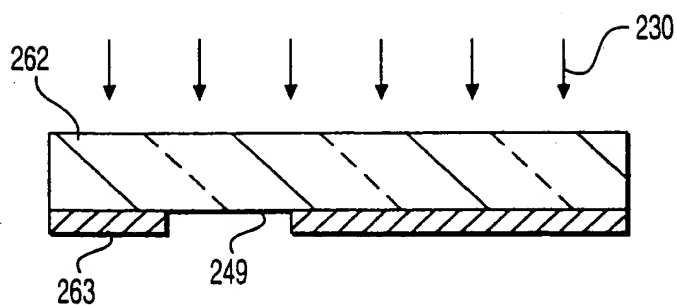


FIG. 2F-1'

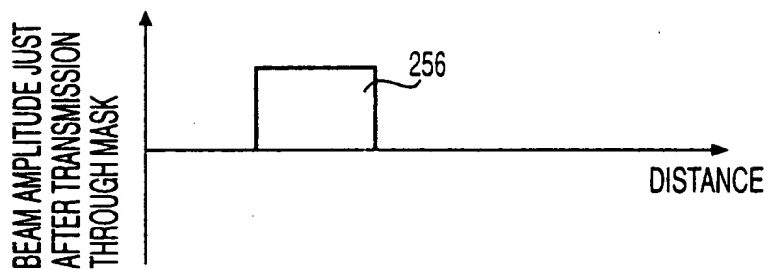


FIG. 2F-2

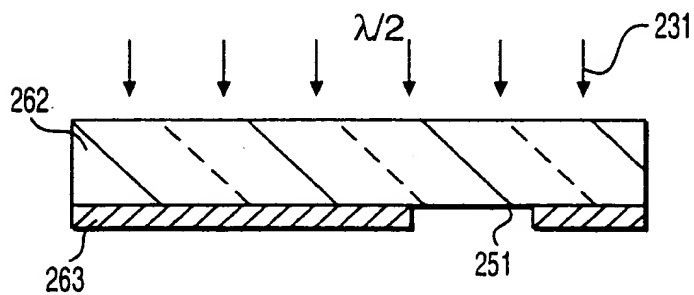
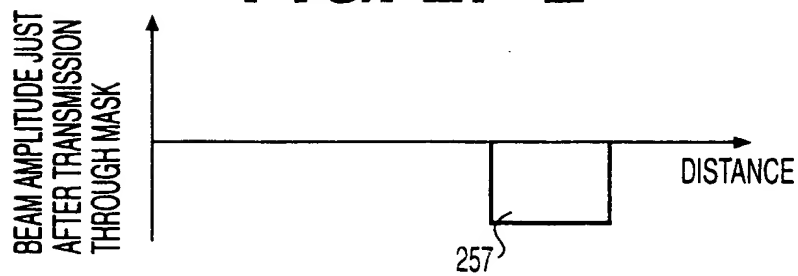


FIG. 2F-2'



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 2F-3

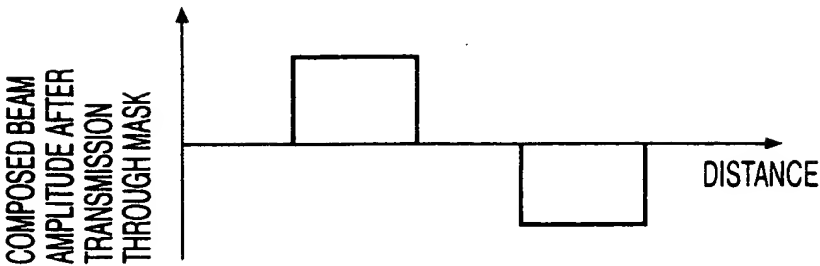


FIG. 2F-4

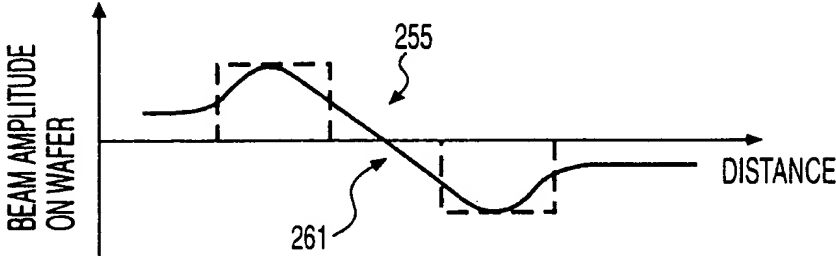


FIG. 2F-4'

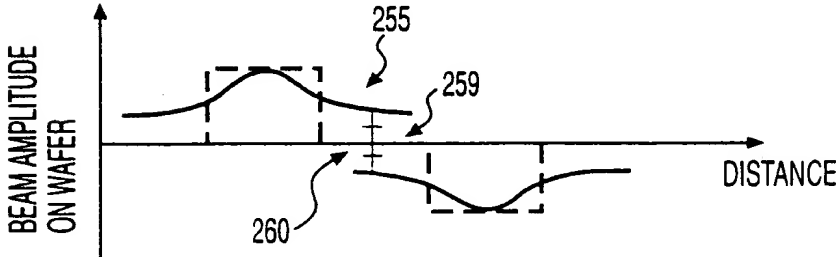
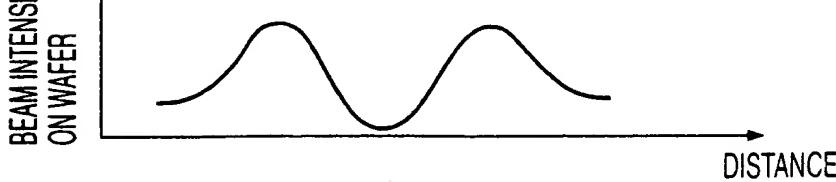


FIG. 2F-5



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 2G-1

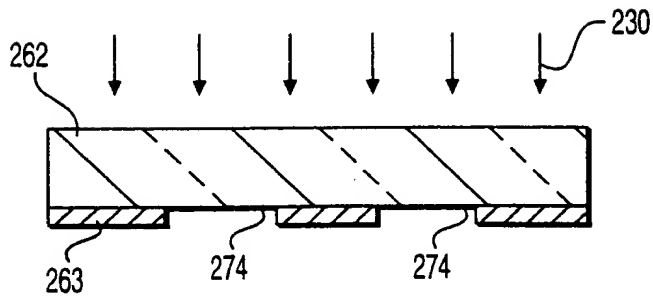


FIG. 2G-1'

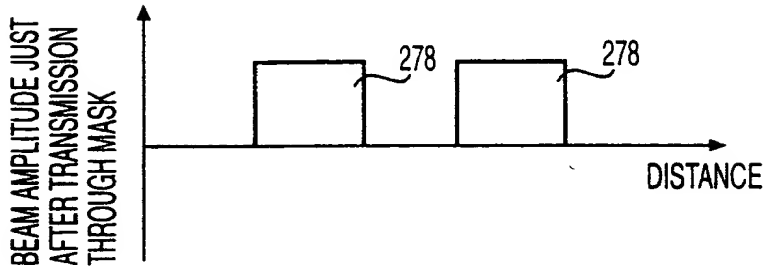


FIG. 2G-2

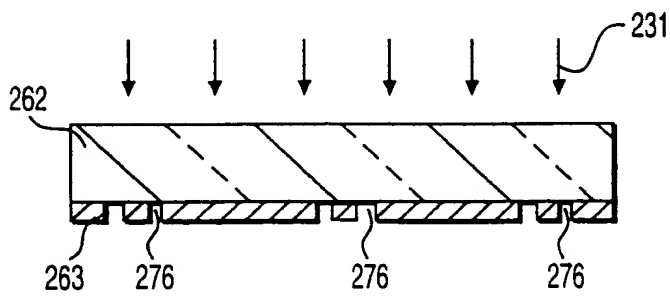
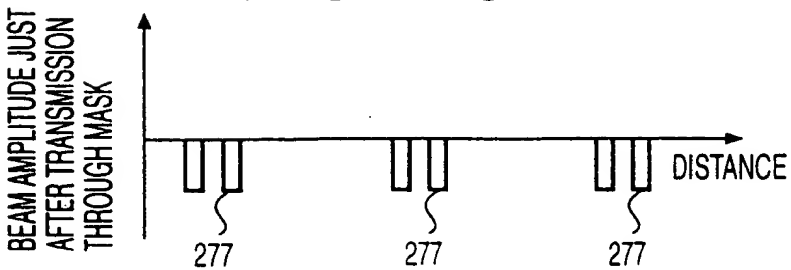


FIG. 2G-2'



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 2G-3

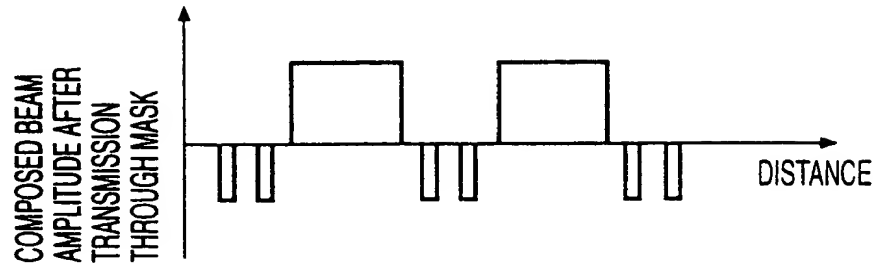


FIG. 2G-4

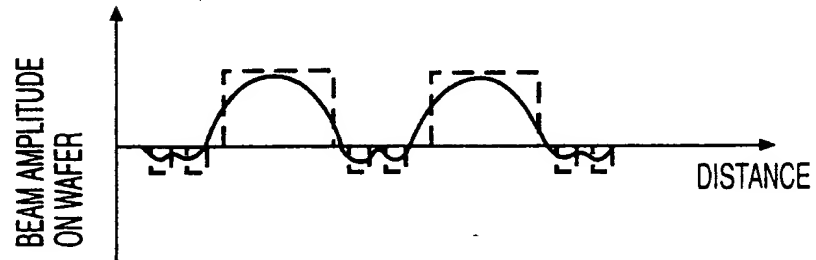


FIG. 2G-5

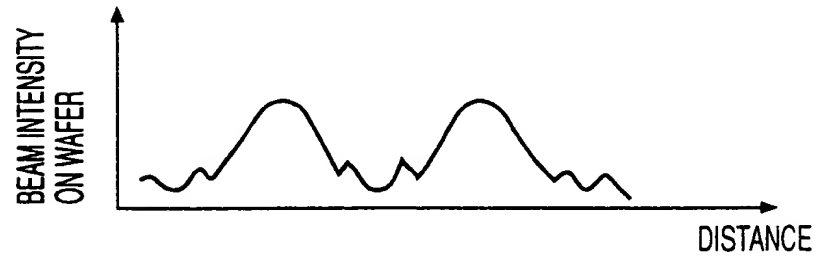
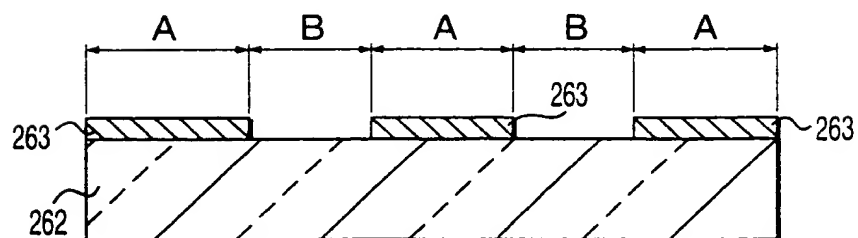


FIG. 2H



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

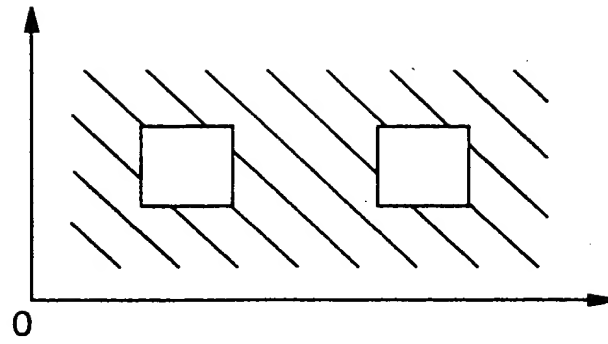


FIG. 2I-1

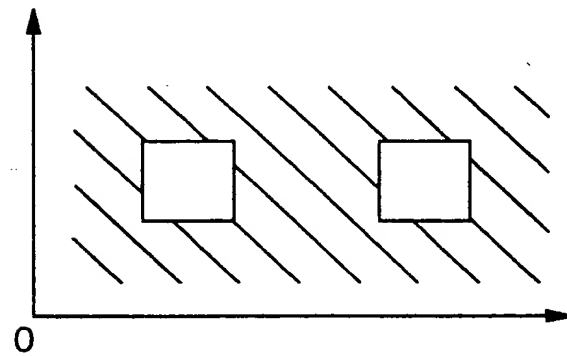


FIG. 2I-2

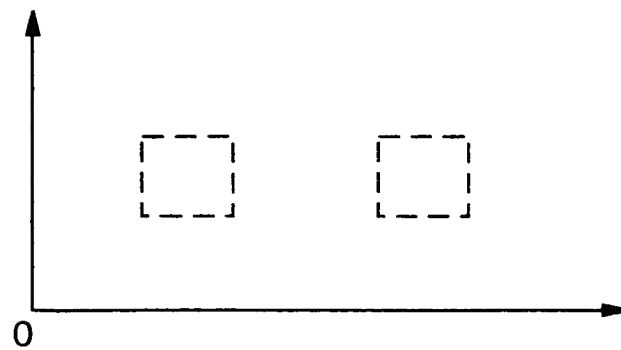


FIG. 2I-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

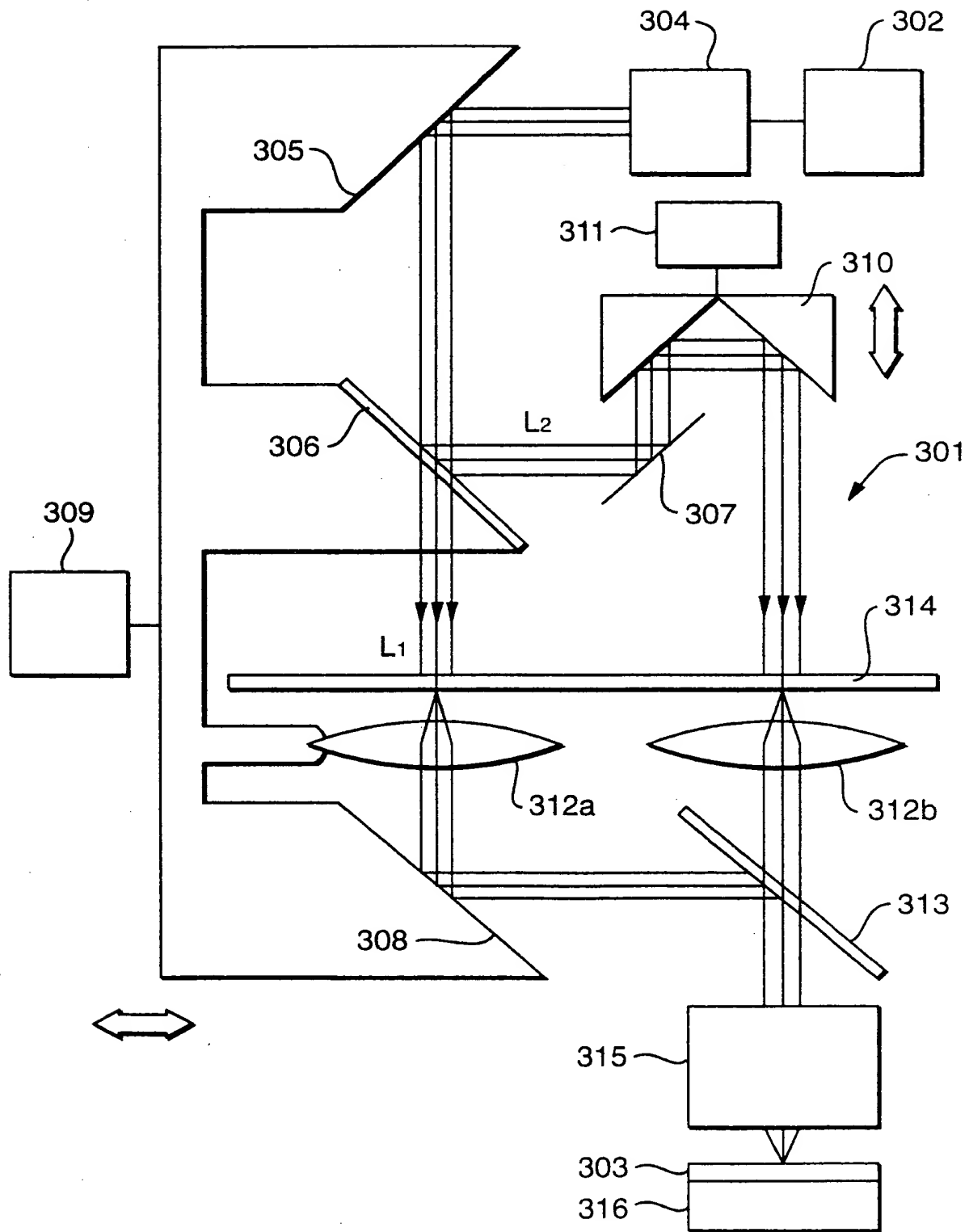


FIG. 3A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 3B

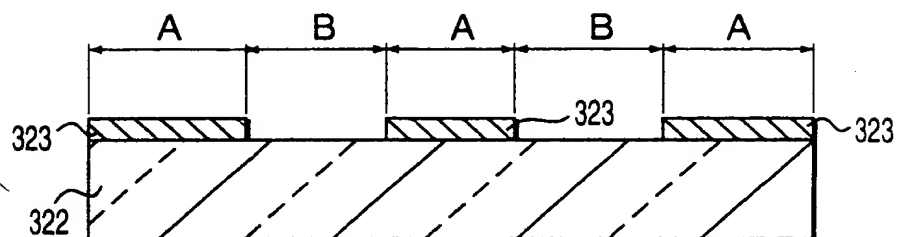
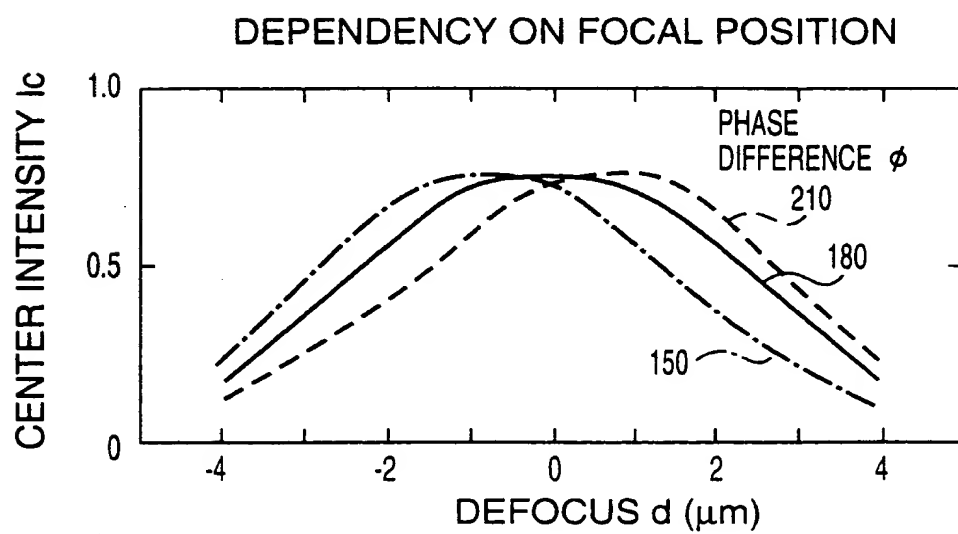


FIG. 3D



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

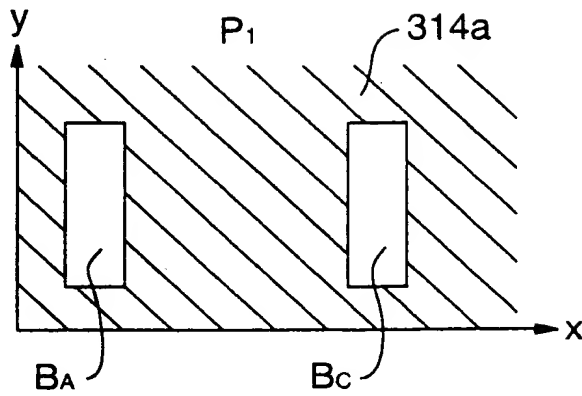


FIG. 3C-1

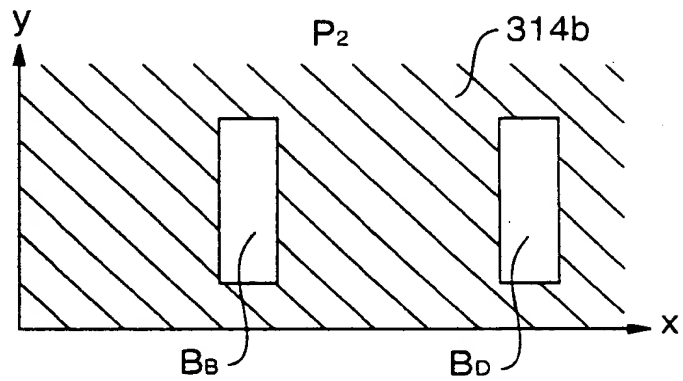


FIG. 3C-2

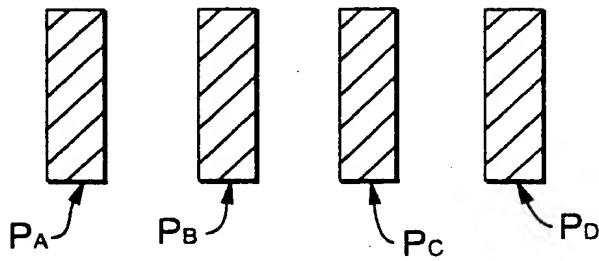


FIG. 3C-3

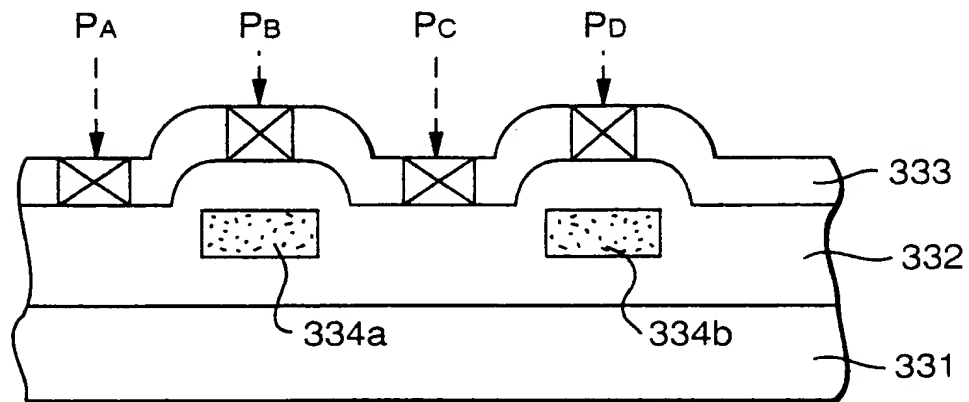


FIG. 3C-4

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

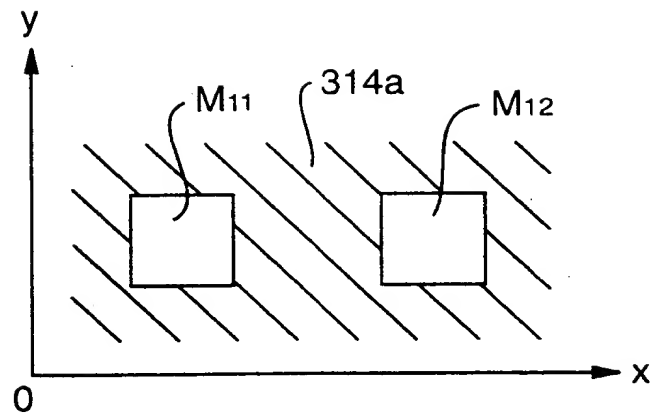


FIG. 3E-1

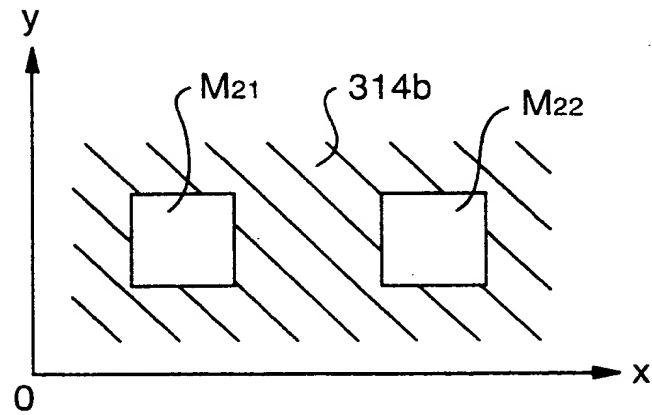


FIG. 3E-2

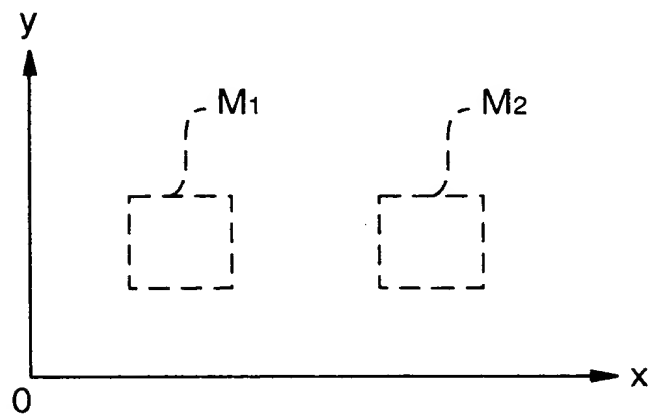


FIG. 3E-3

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

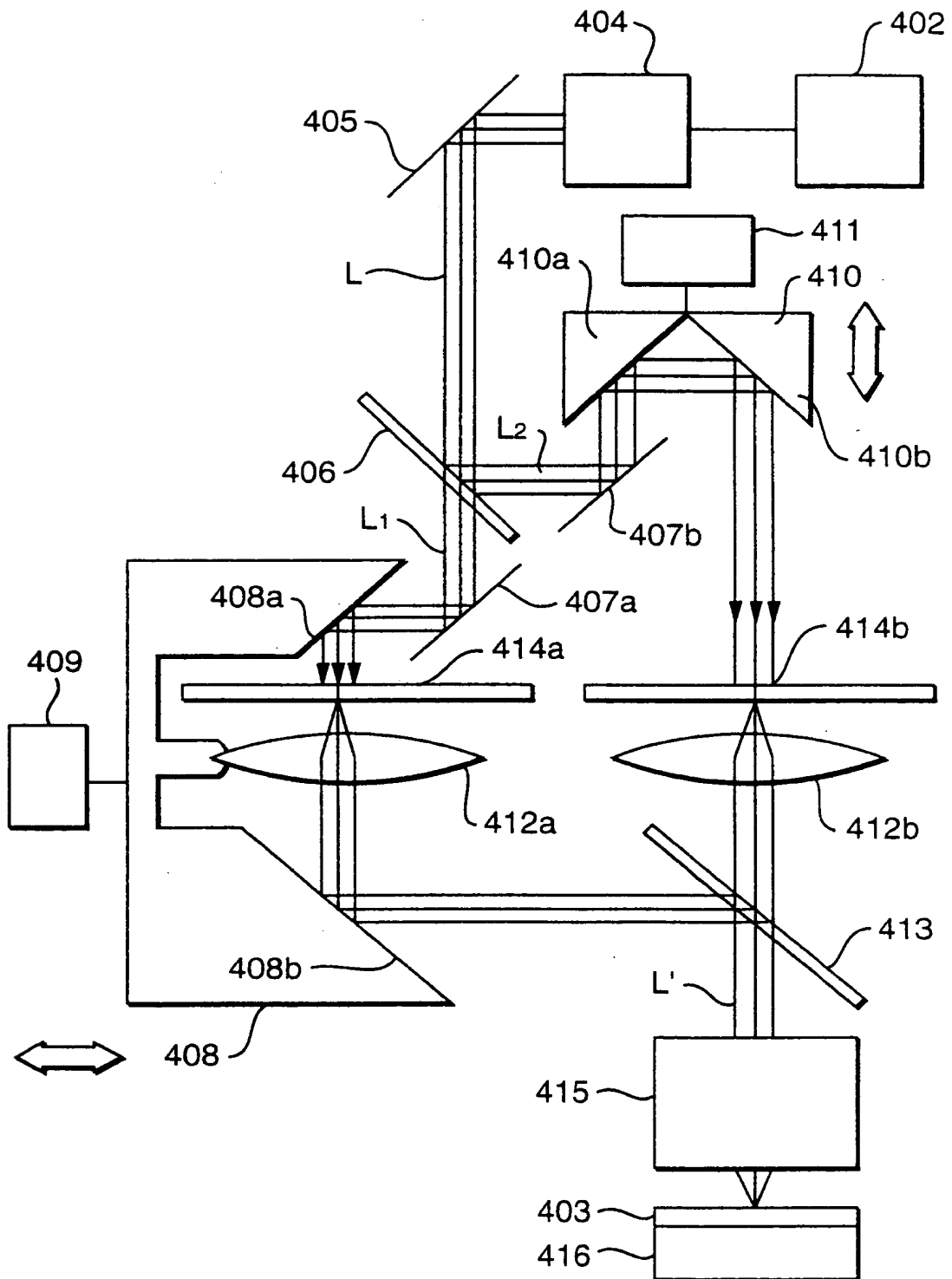


FIG. 4

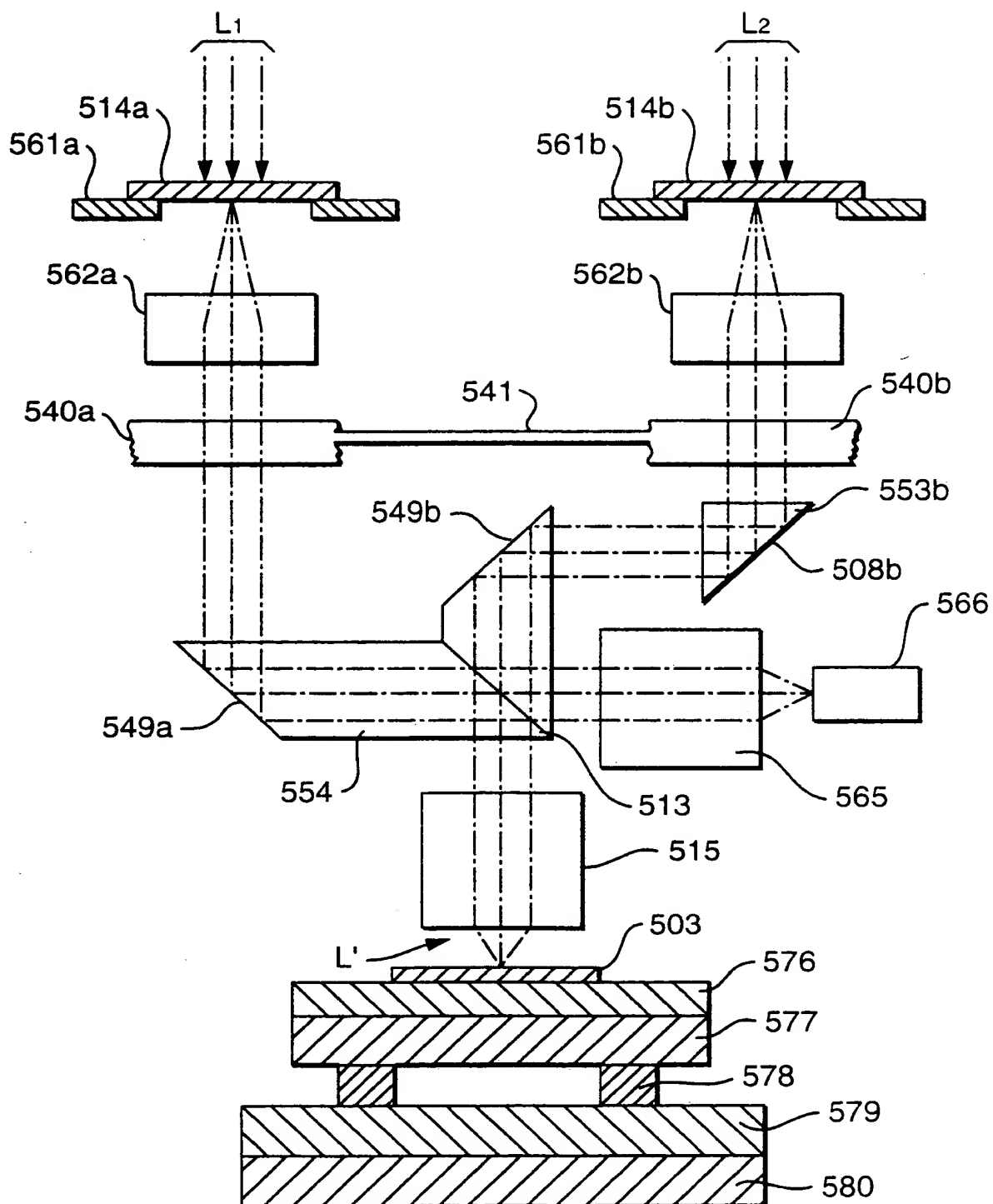


FIG. 5A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

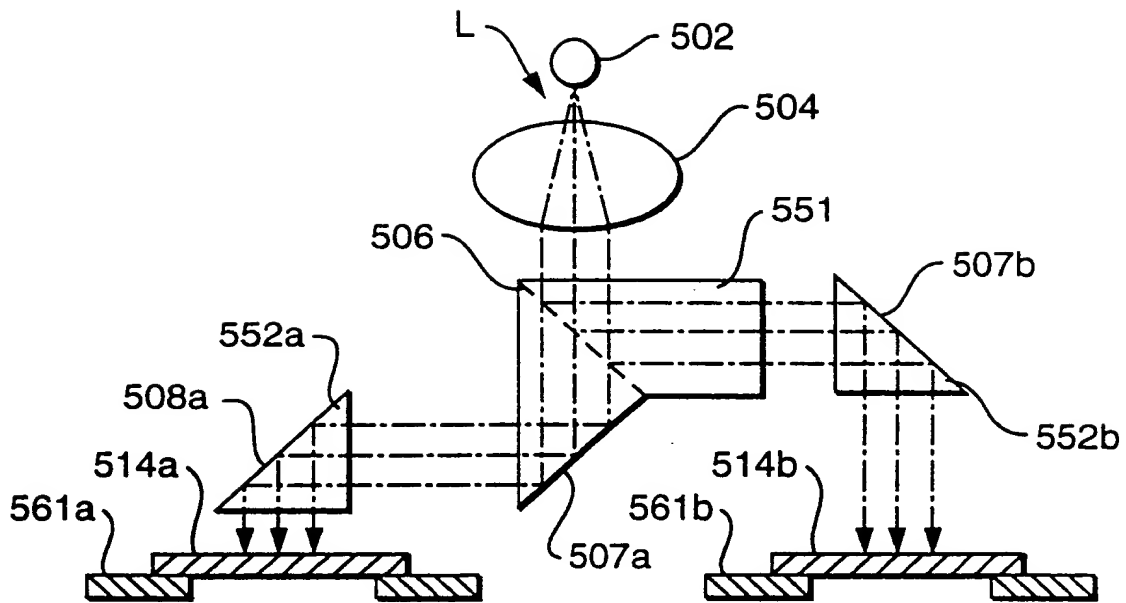


FIG. 5B

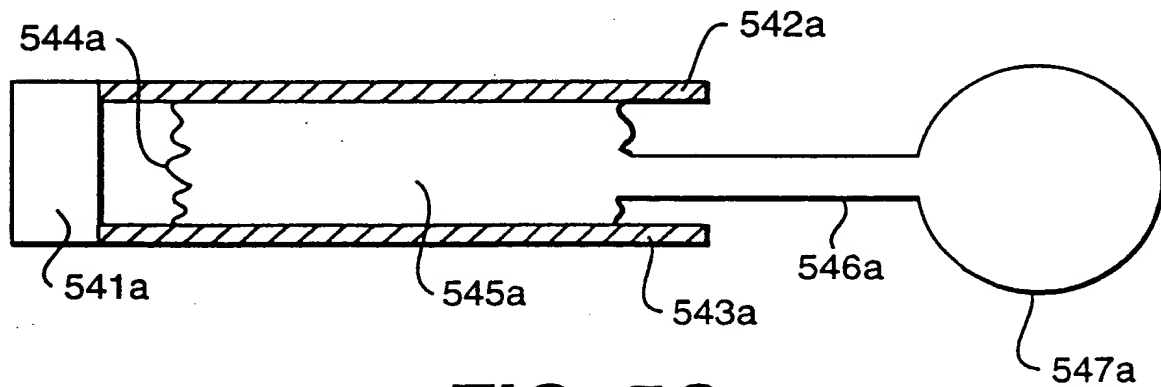


FIG. 5C

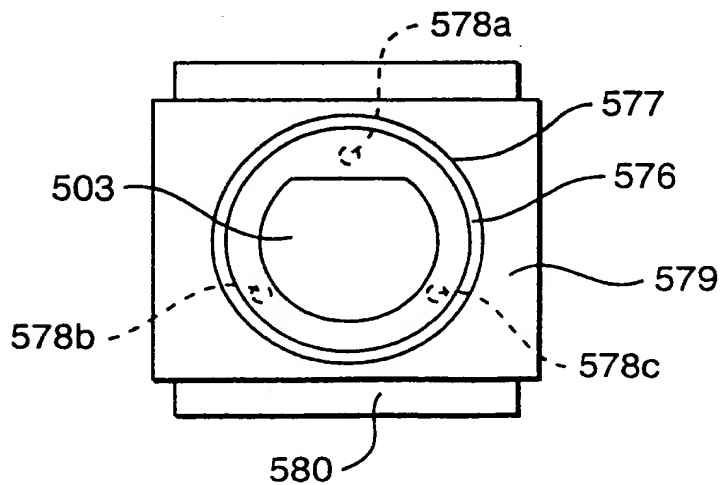


FIG. 5D

FIG. 6A

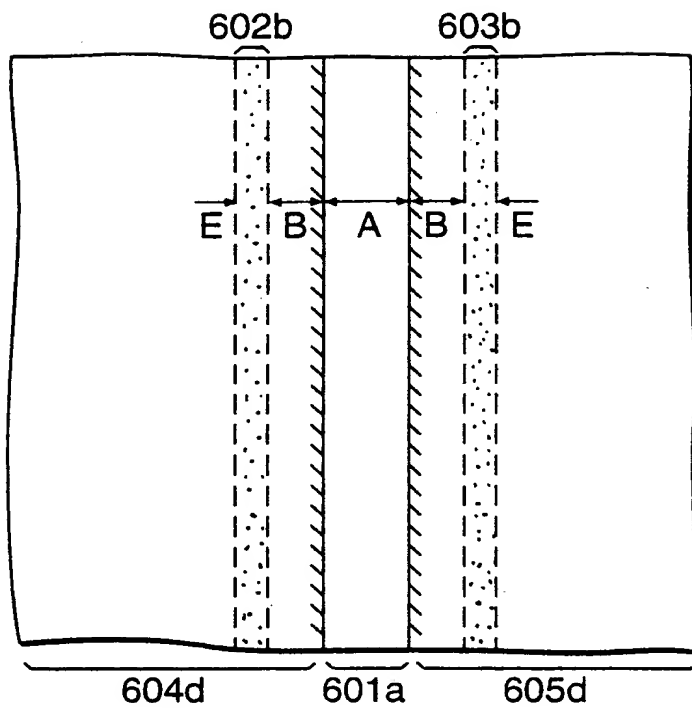
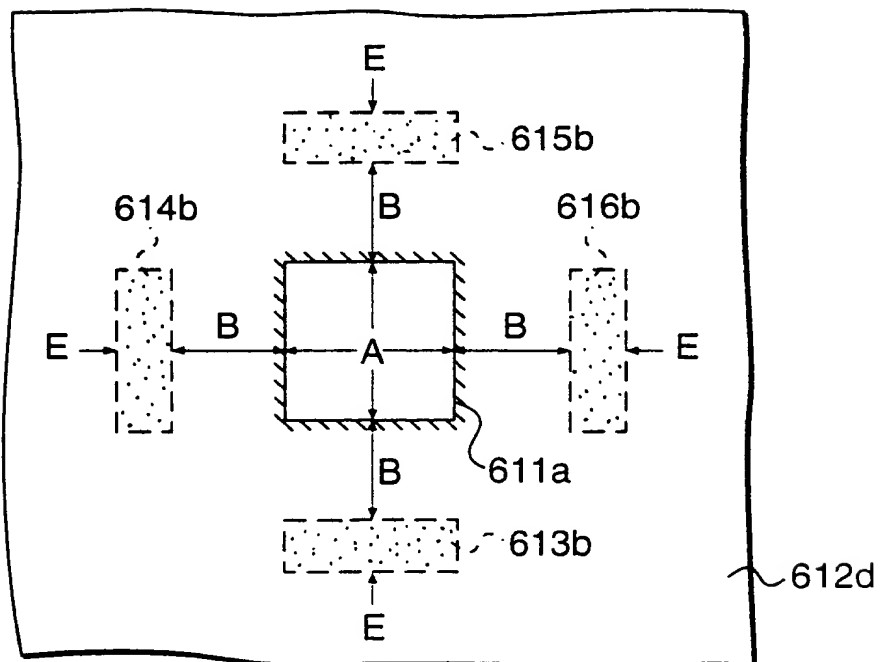


FIG. 6B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 6E

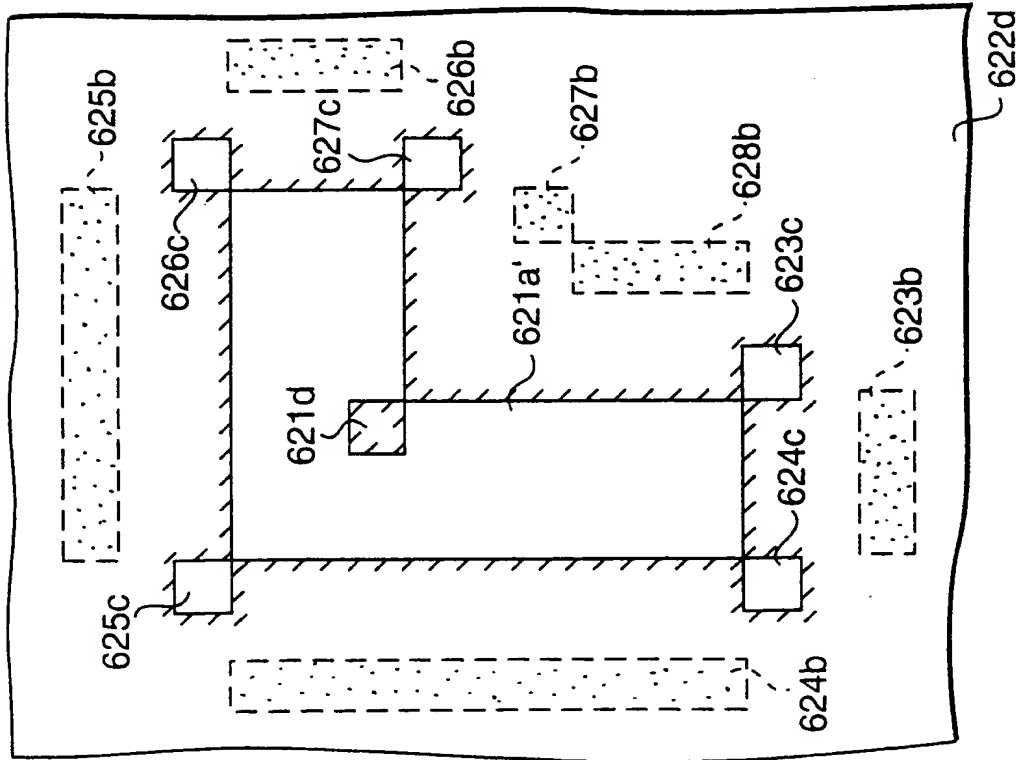
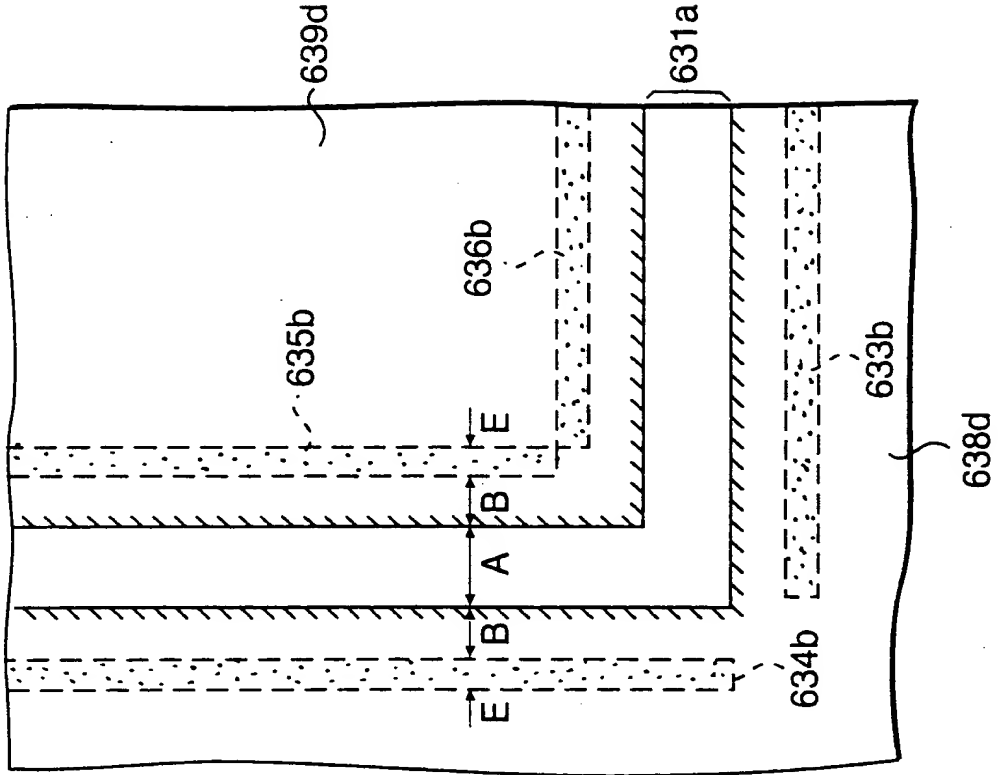


FIG. 6F



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 6G

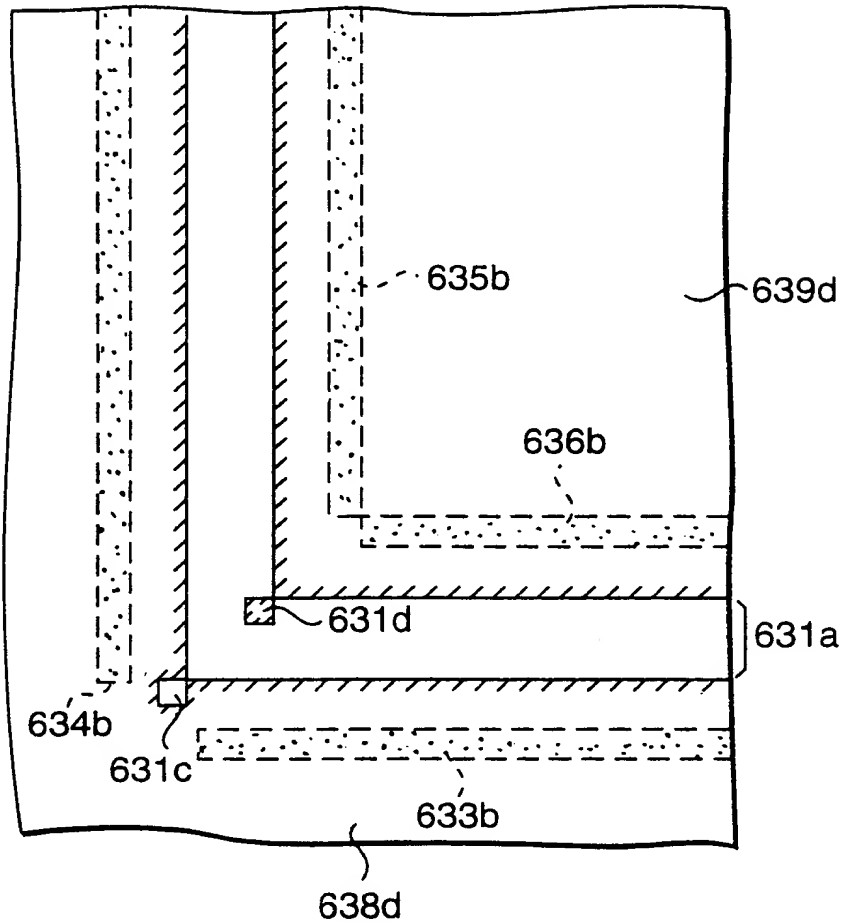
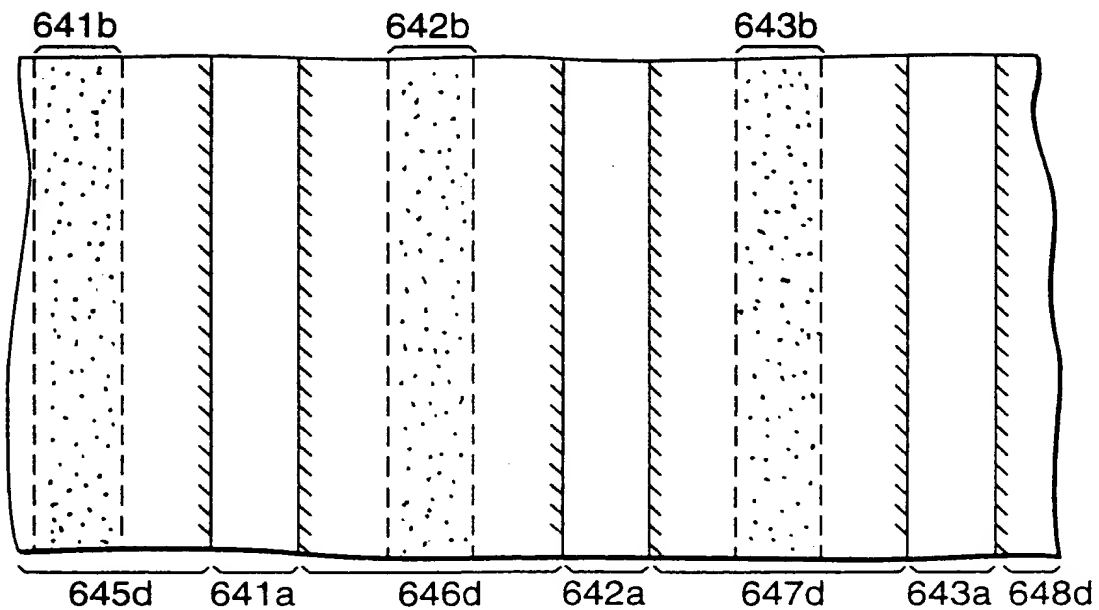


FIG. 6H



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

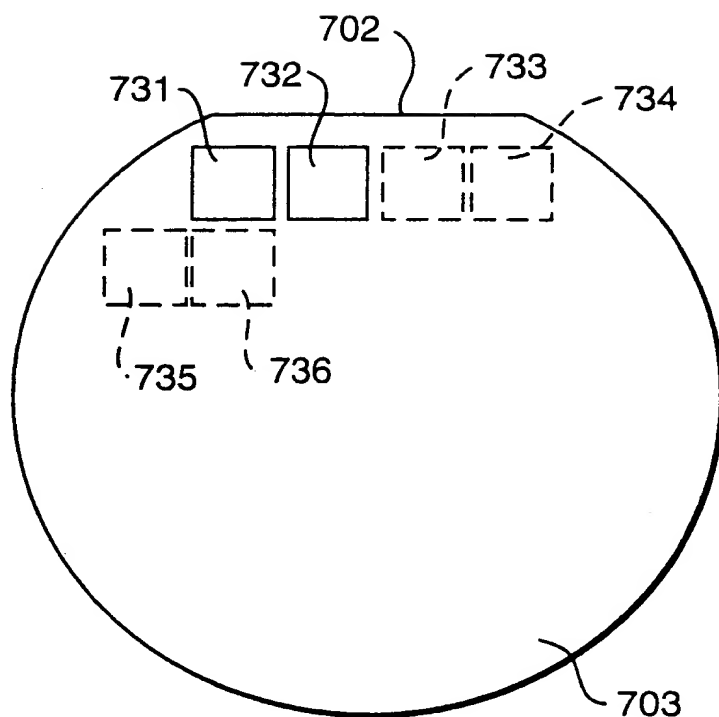


FIG. 7A

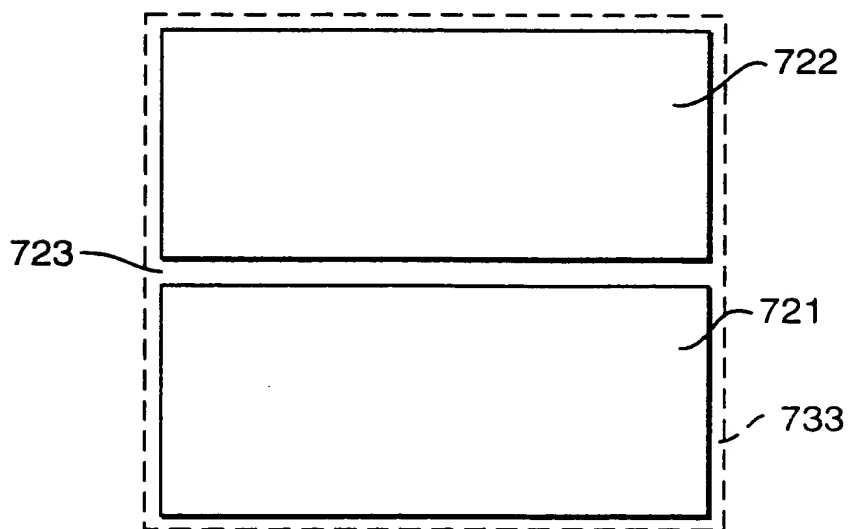


FIG. 7B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

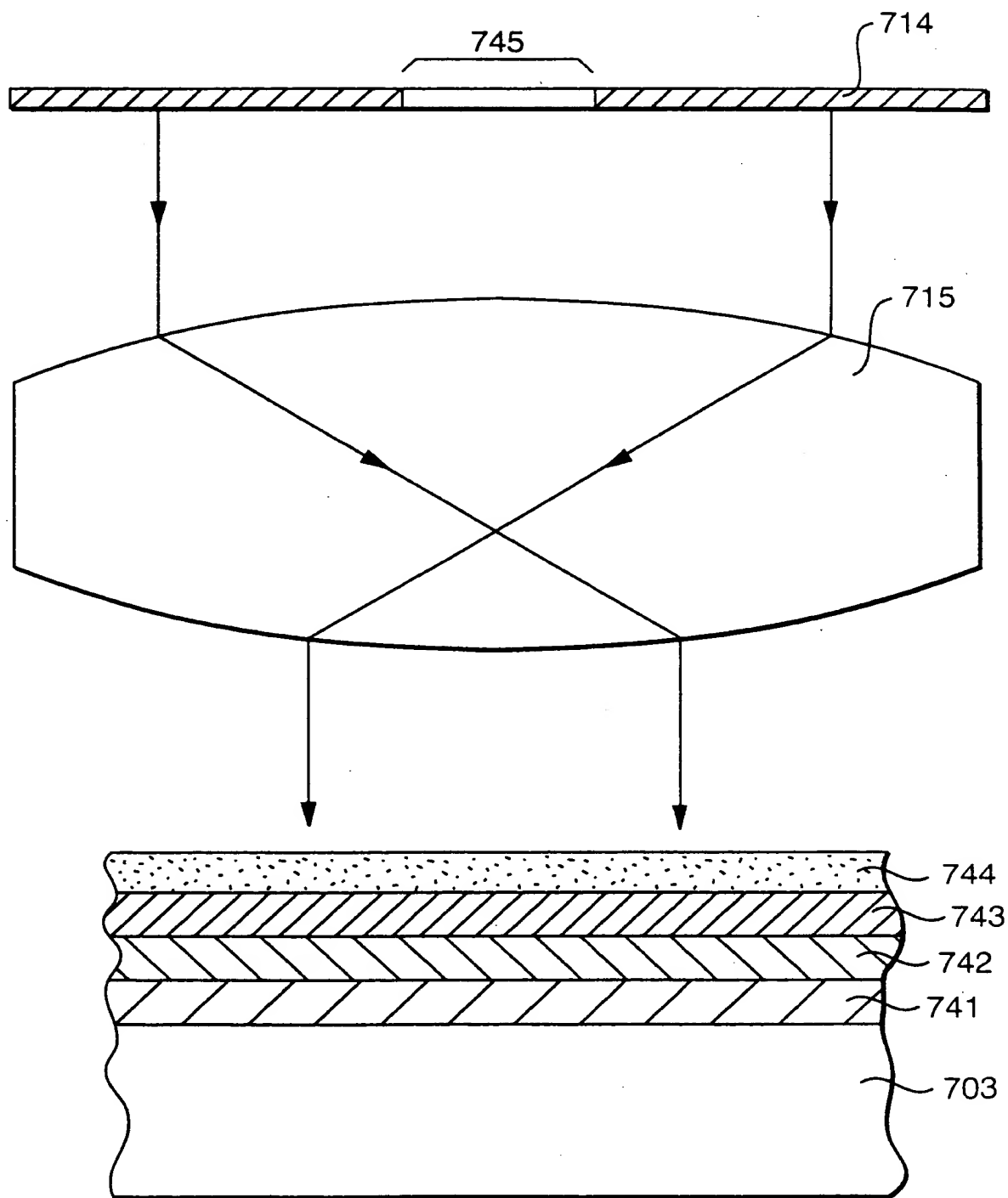


FIG. 7C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

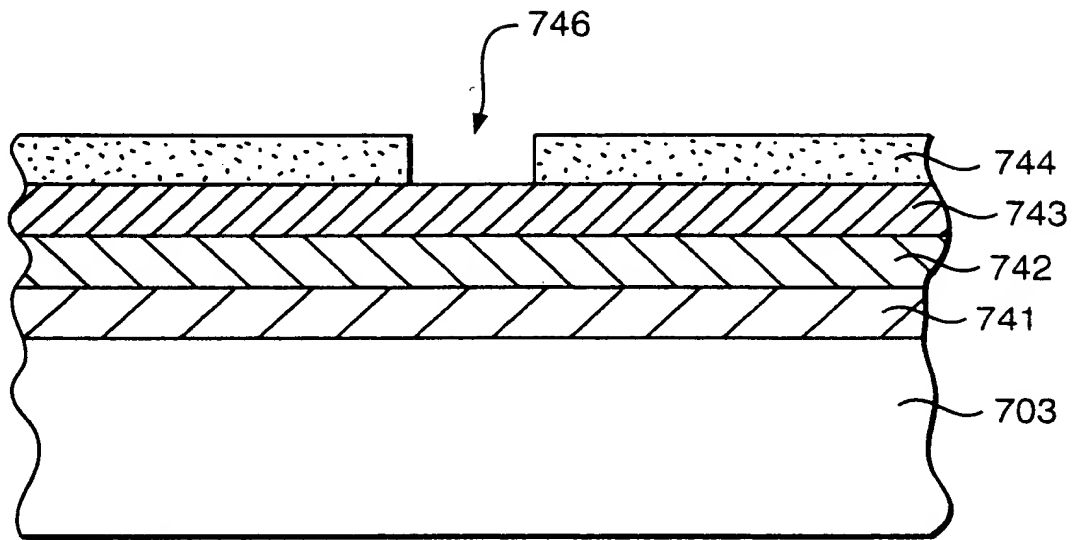


FIG. 7D

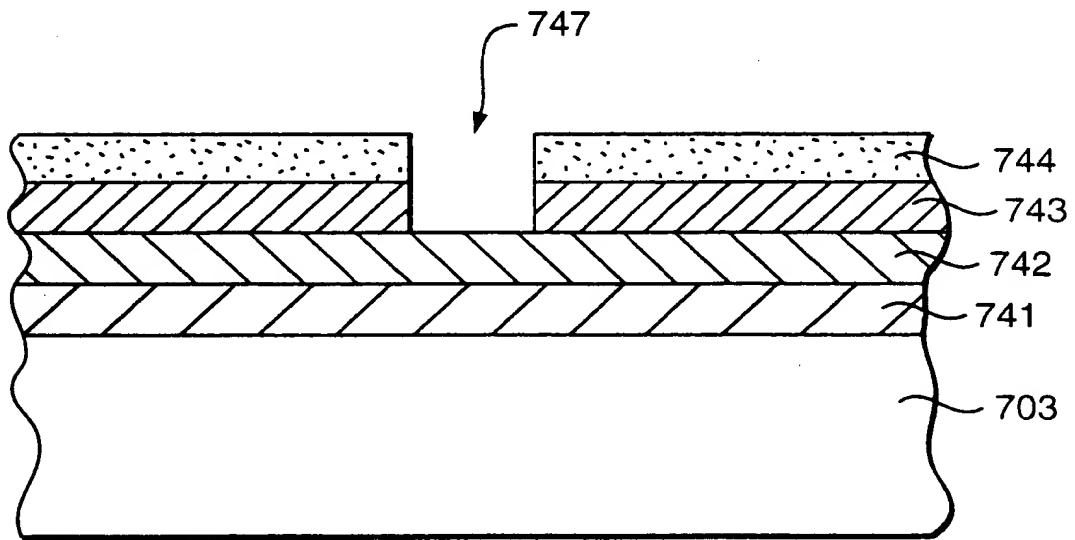


FIG. 7E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

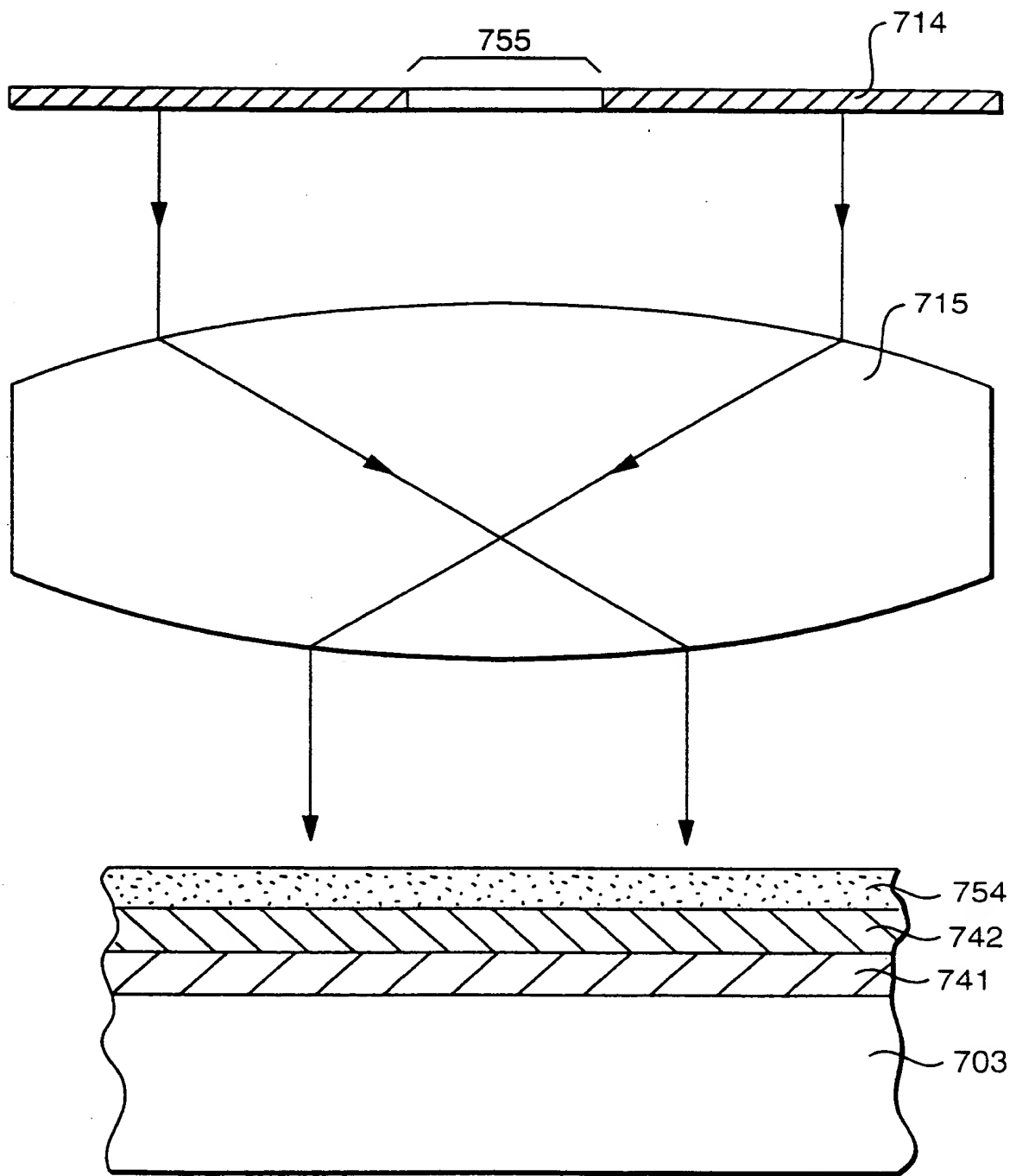


FIG. 7F

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

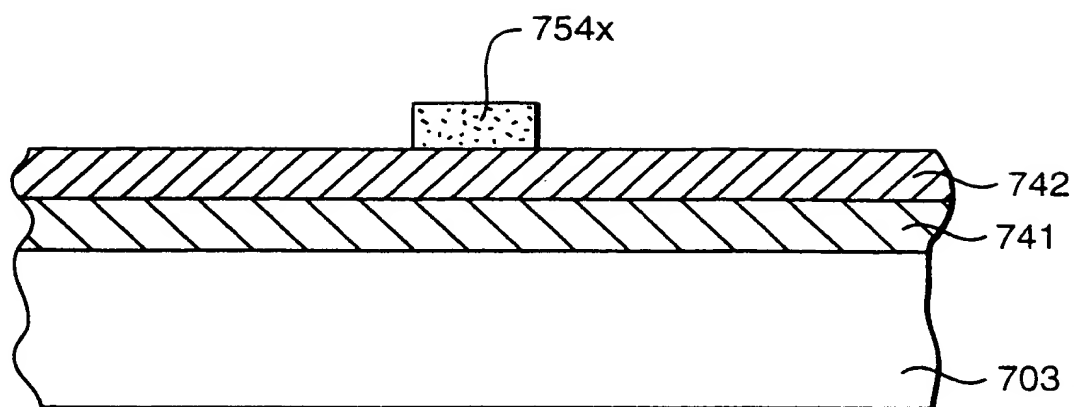


FIG. 7G

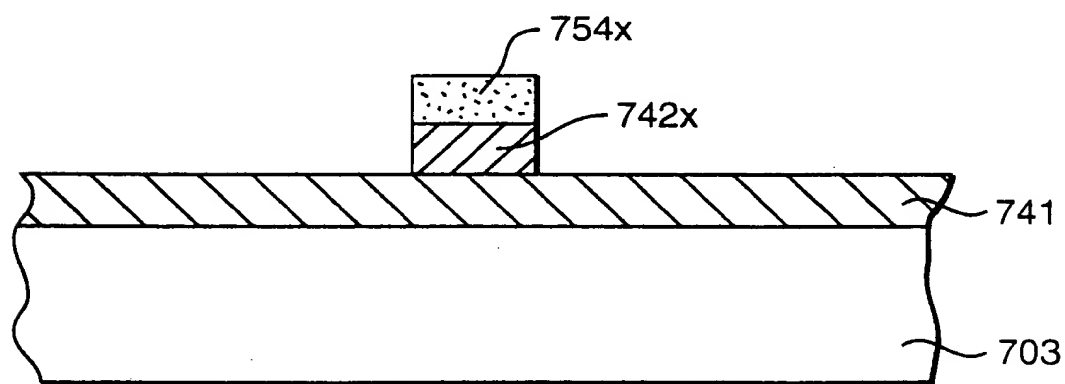


FIG. 7H

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

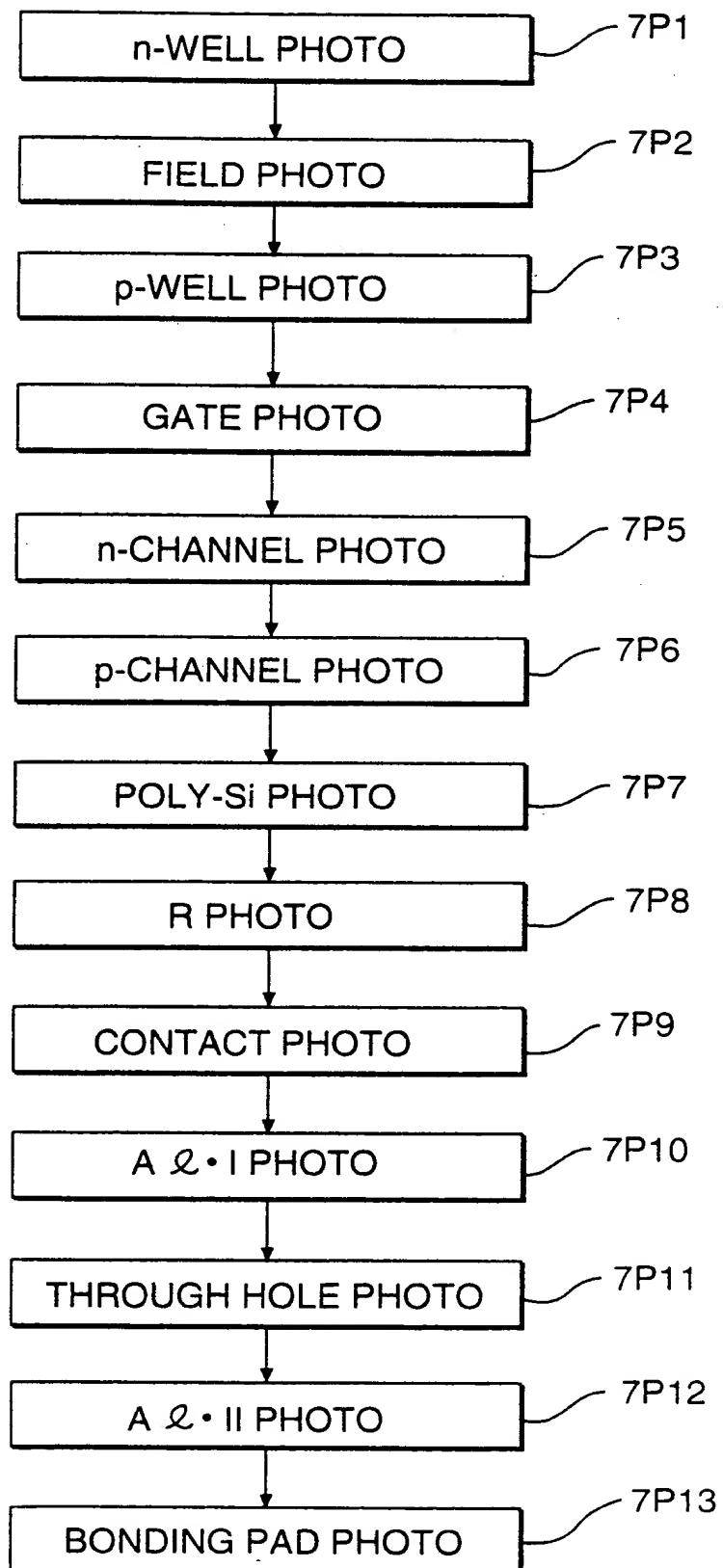


FIG. 7I

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

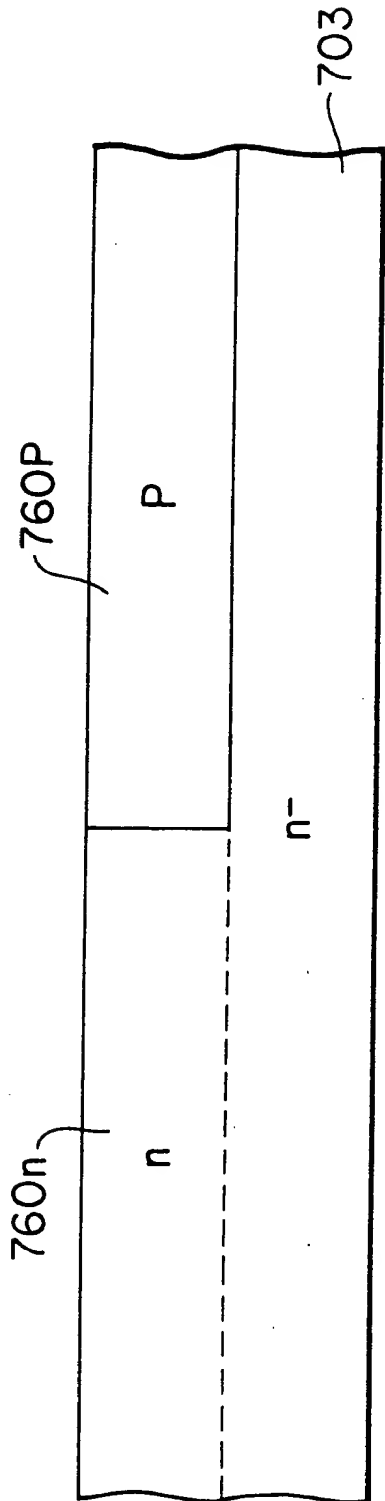


FIG. 7J

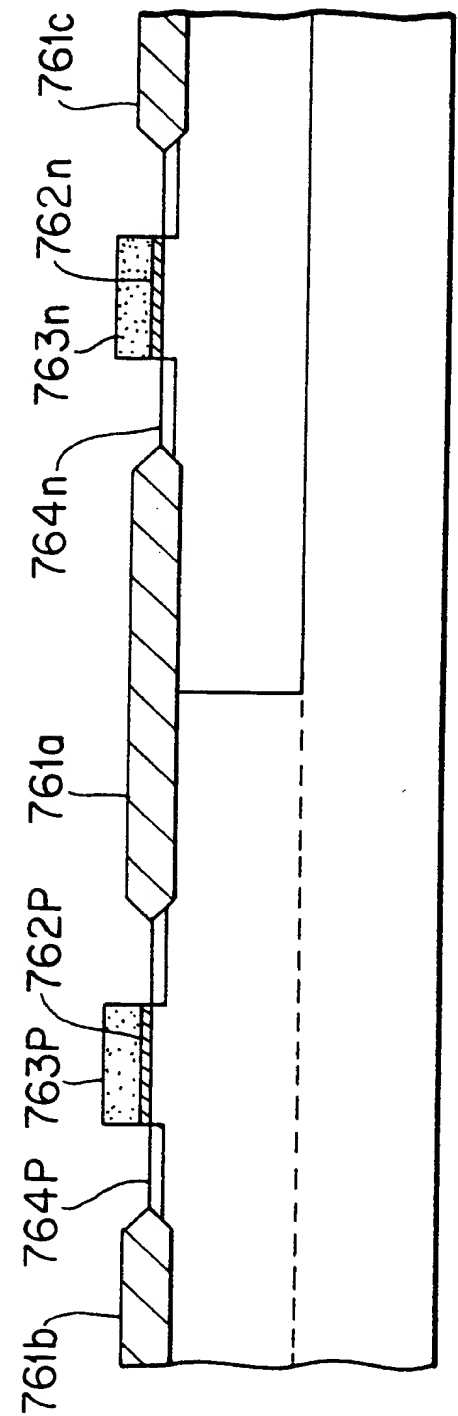


FIG. 7K

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

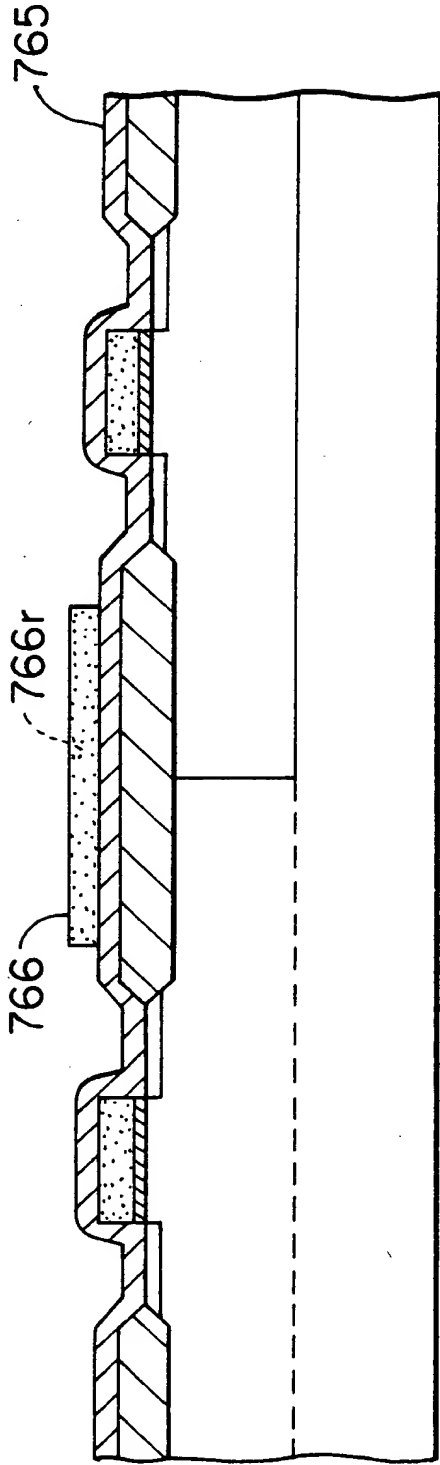


FIG. 7L

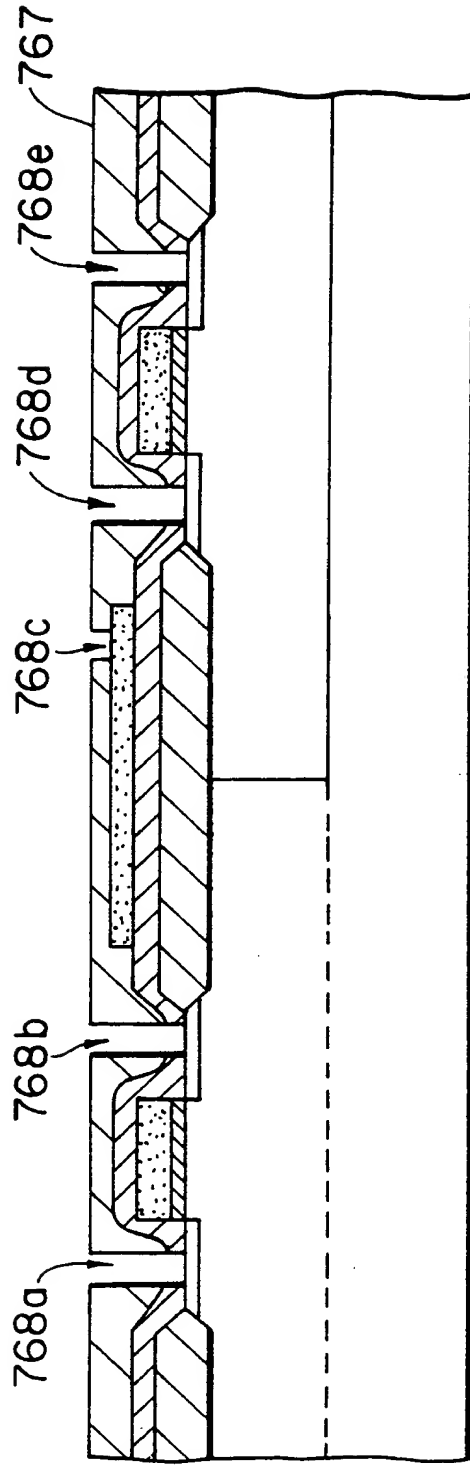


FIG. 7M

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

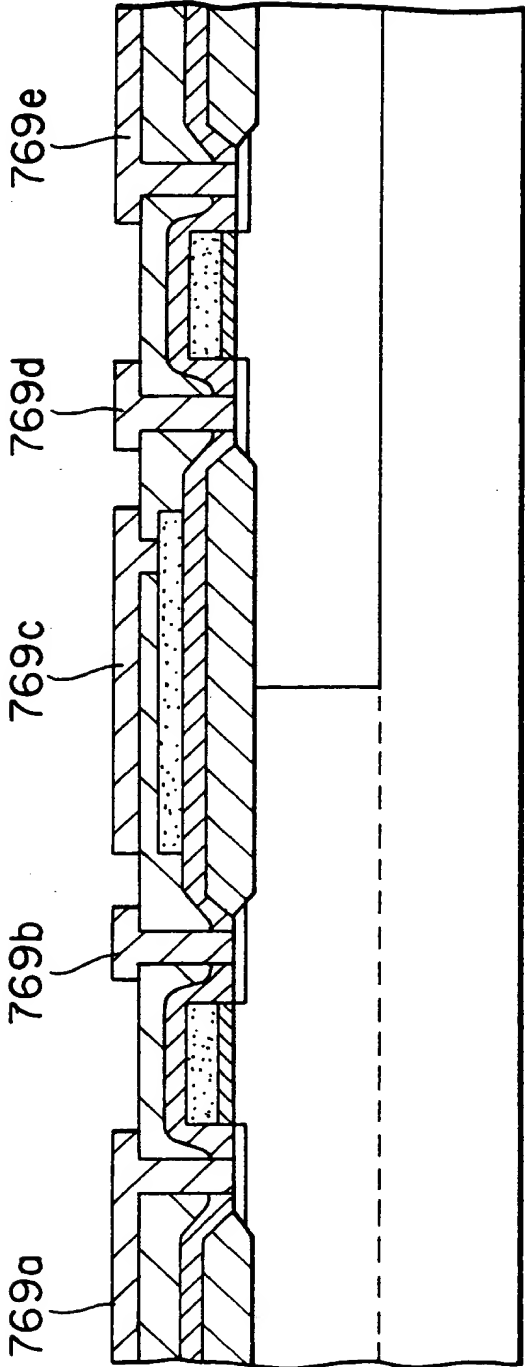


FIG. 7N

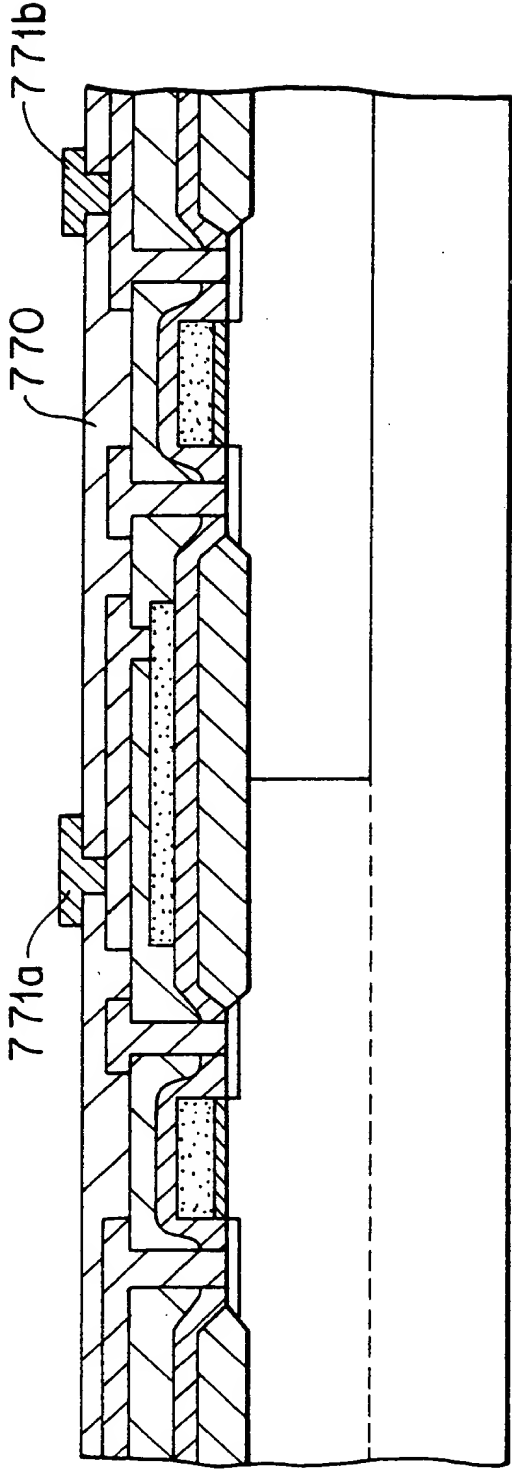


FIG. 7O

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

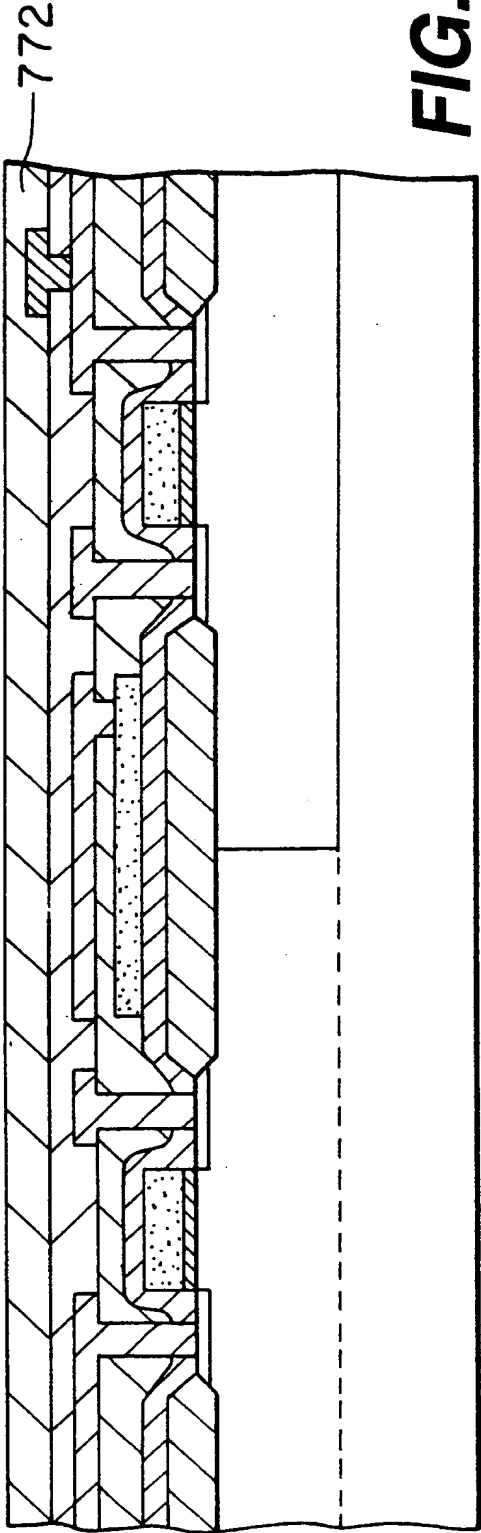


FIG. 7P

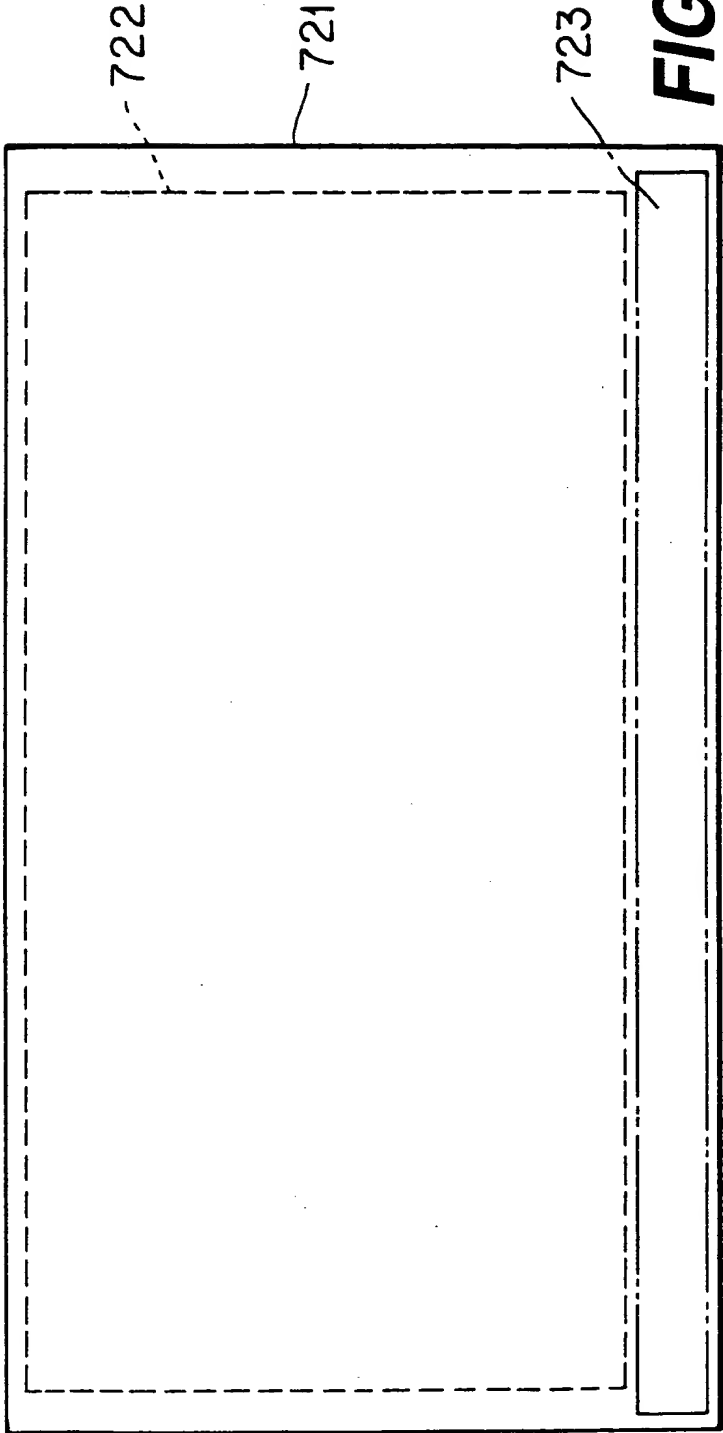


FIG. 7Q

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

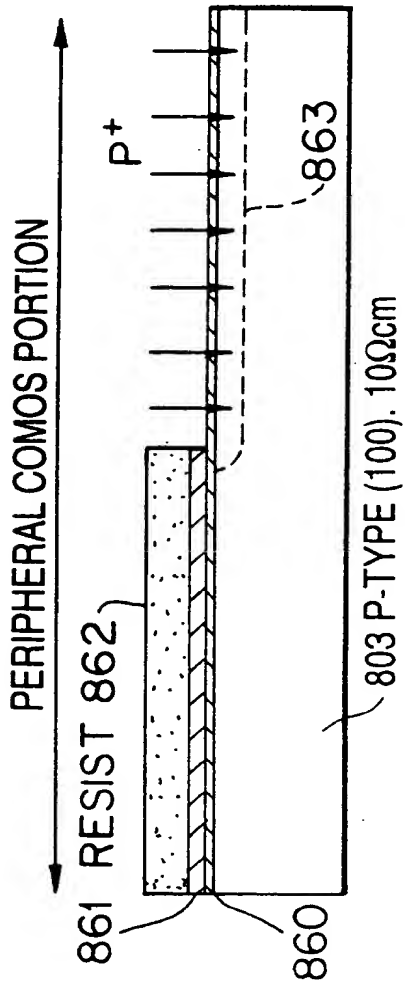


FIG. 8A-1

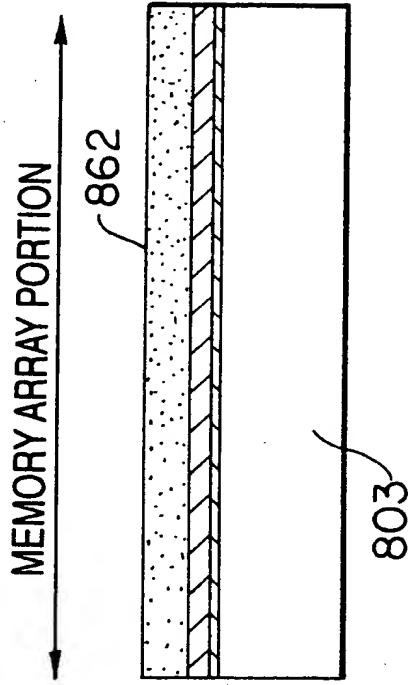


FIG. 8A-2

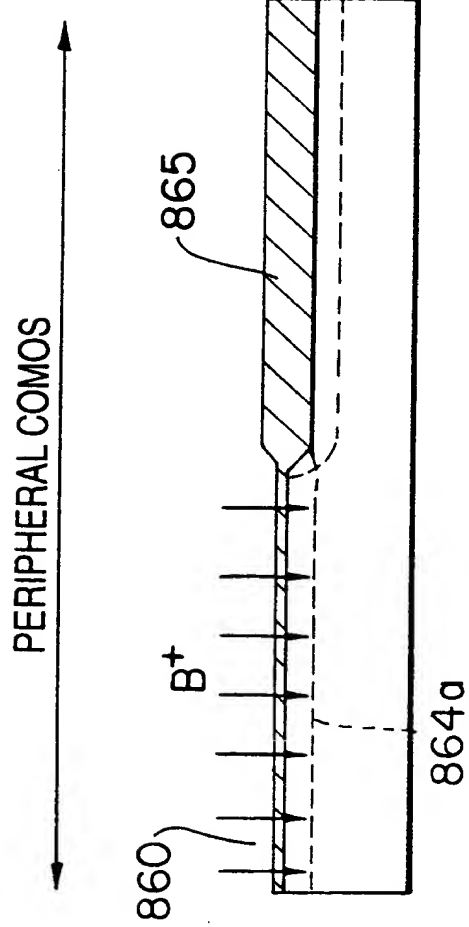


FIG. 8B-1

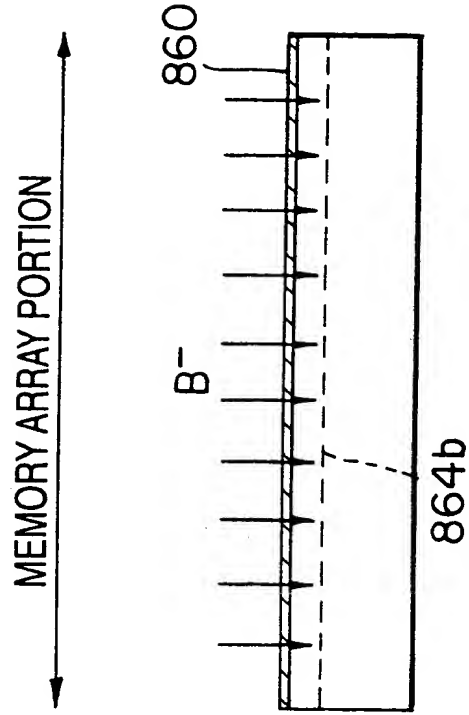


FIG. 8B-2

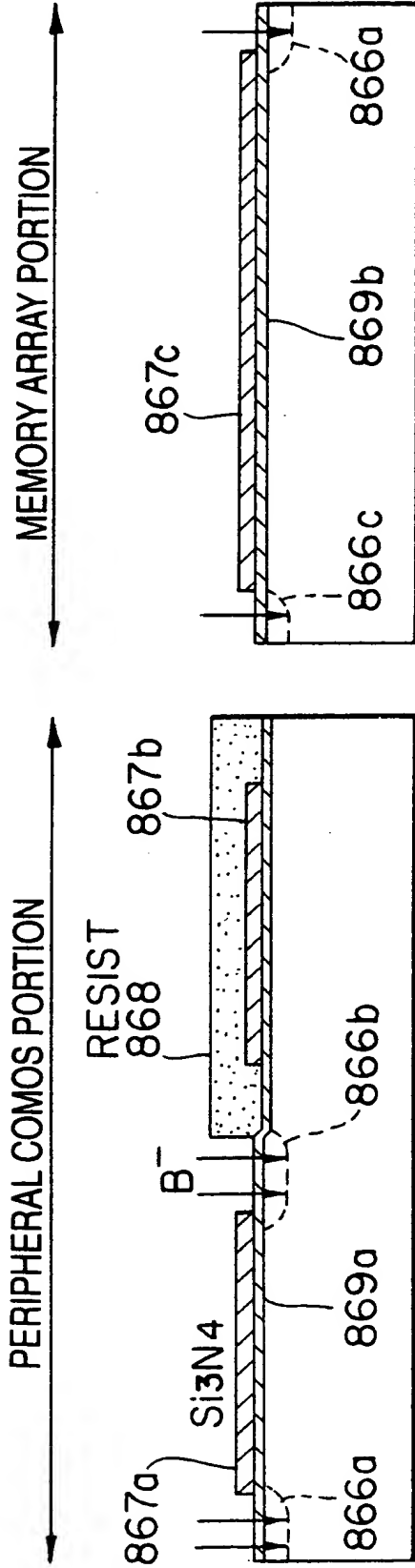


FIG. 8C-2

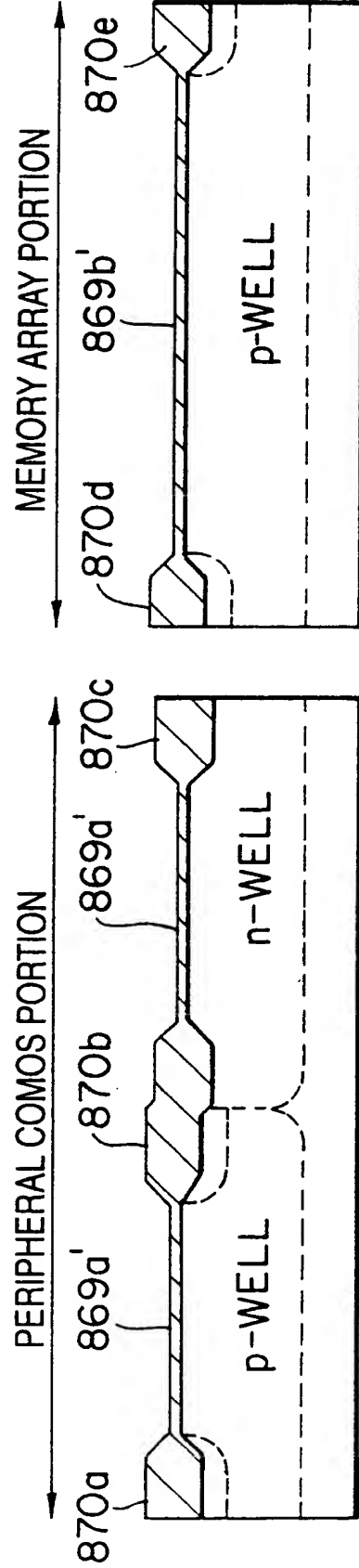


FIG. 8D-2

FIG. 8C-1

FIG. 8D-1

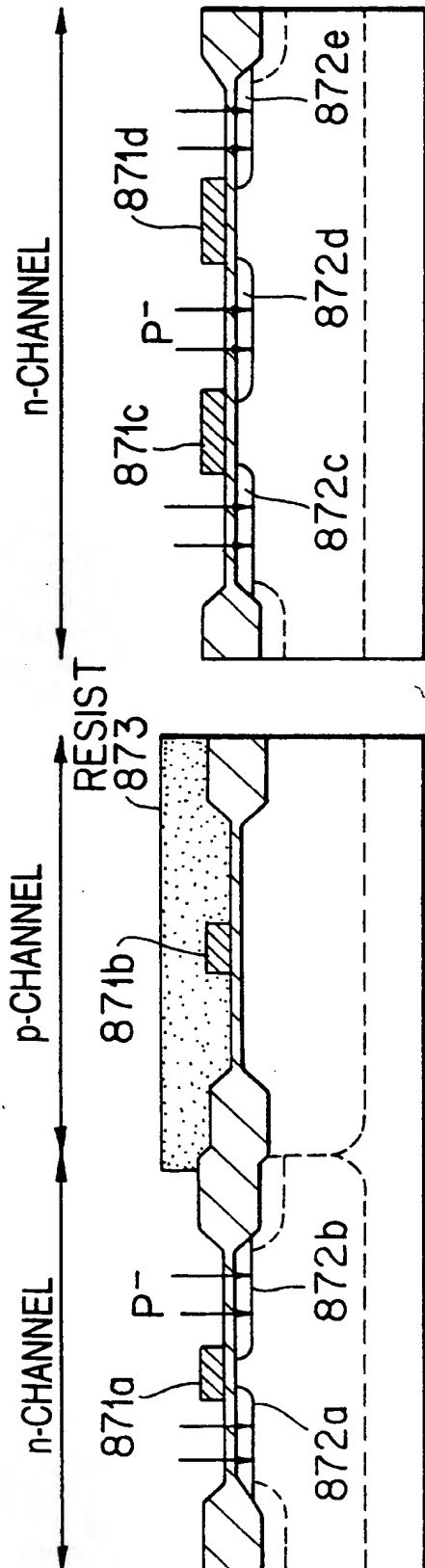


FIG. 8E-1

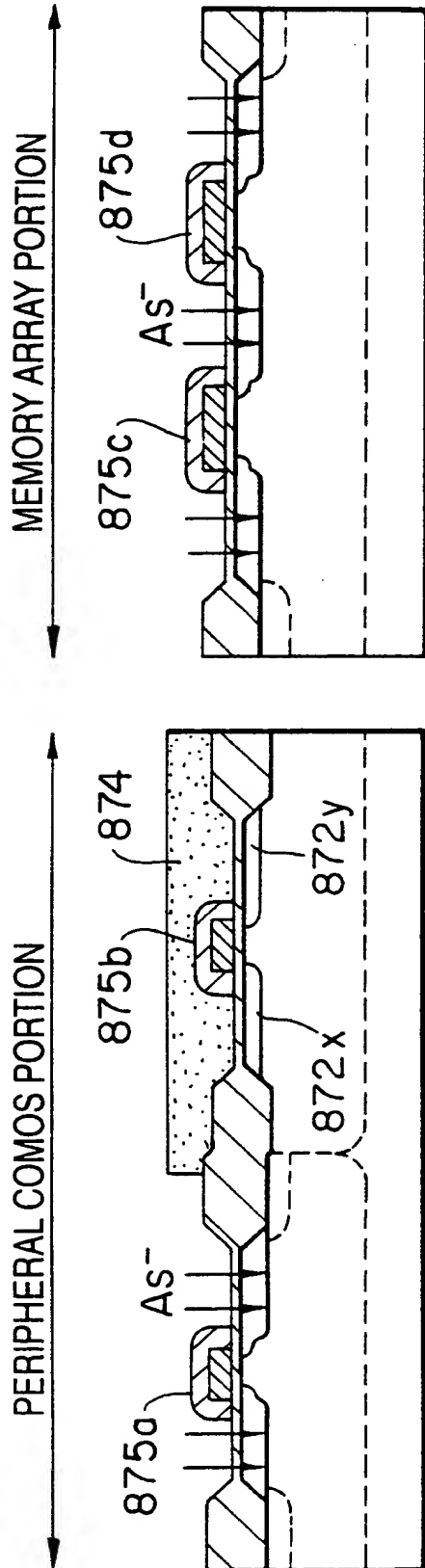


FIG. 8E-2

FIG. 8F-1

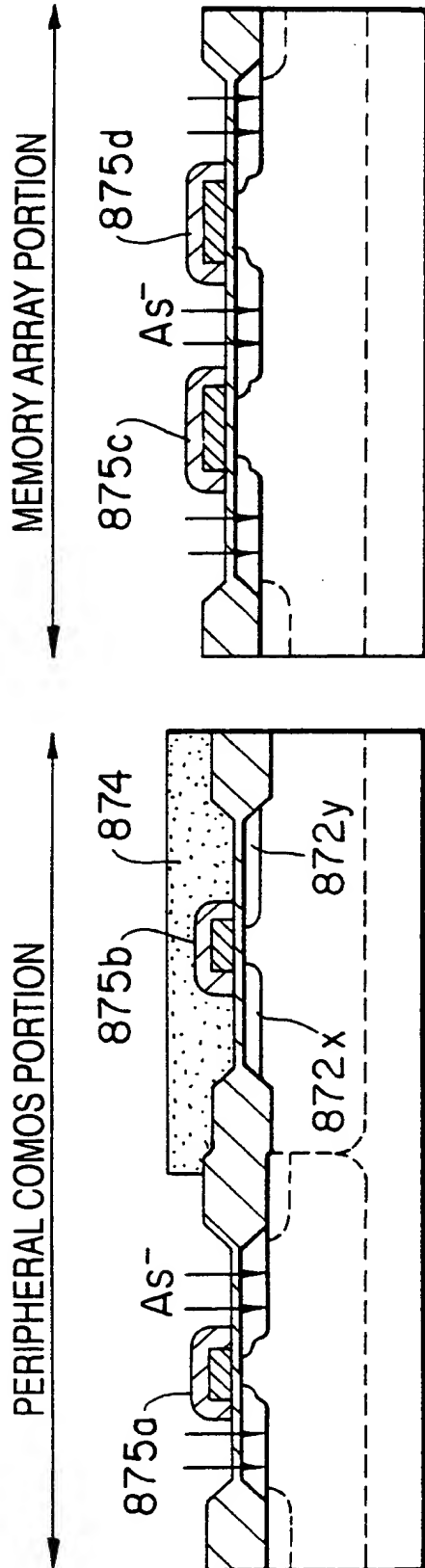


FIG. 8F-2

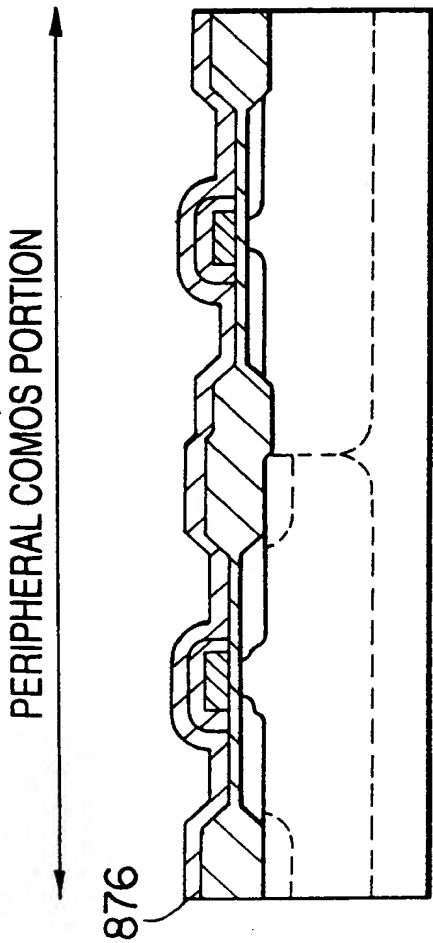


FIG. 8G-1

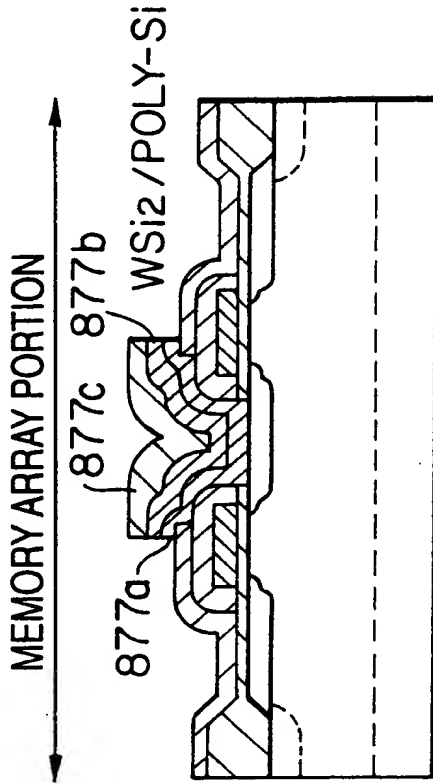


FIG. 8G-2

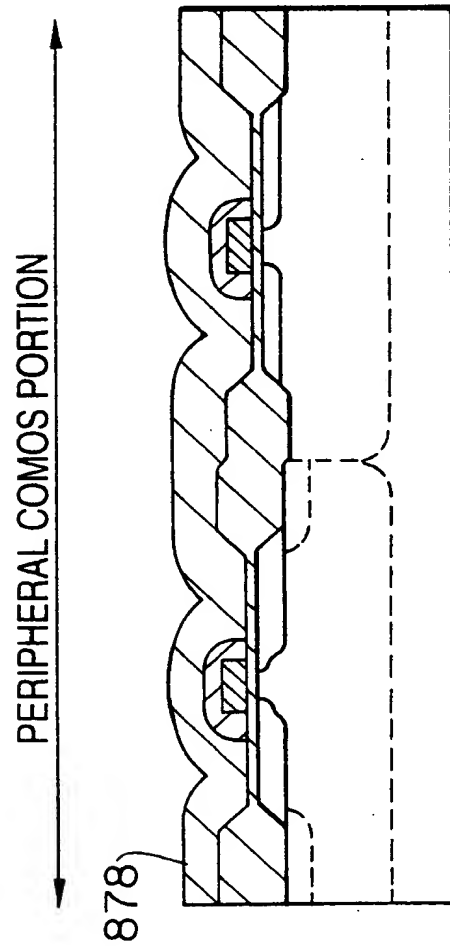


FIG. 8H-1

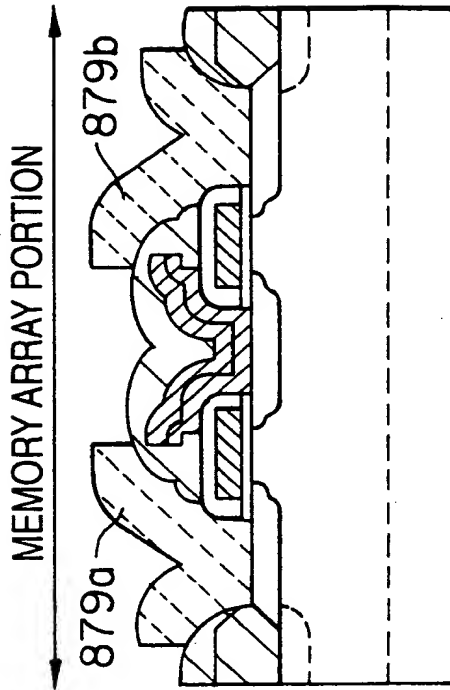


FIG. 8H-2

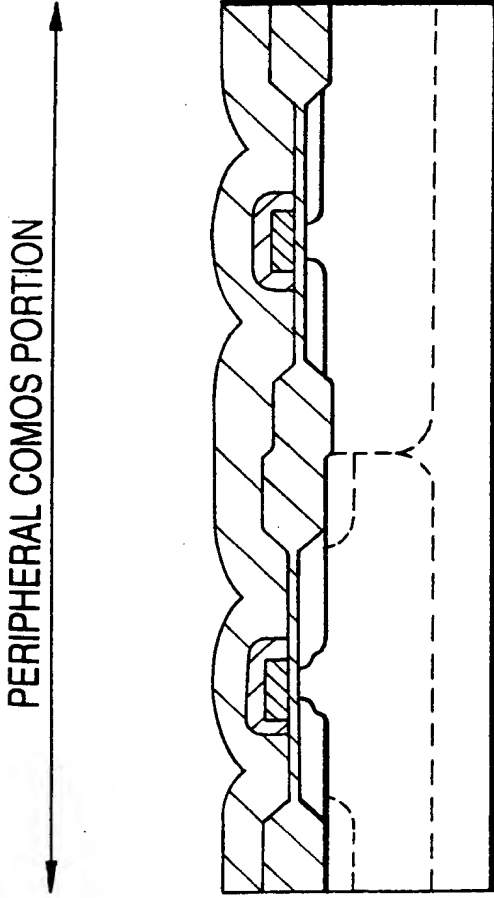


FIG. 8I-1

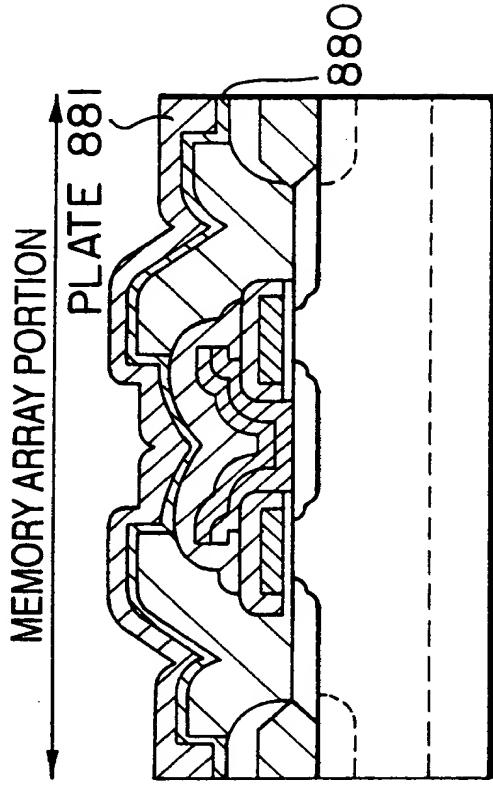


FIG. 8I-2

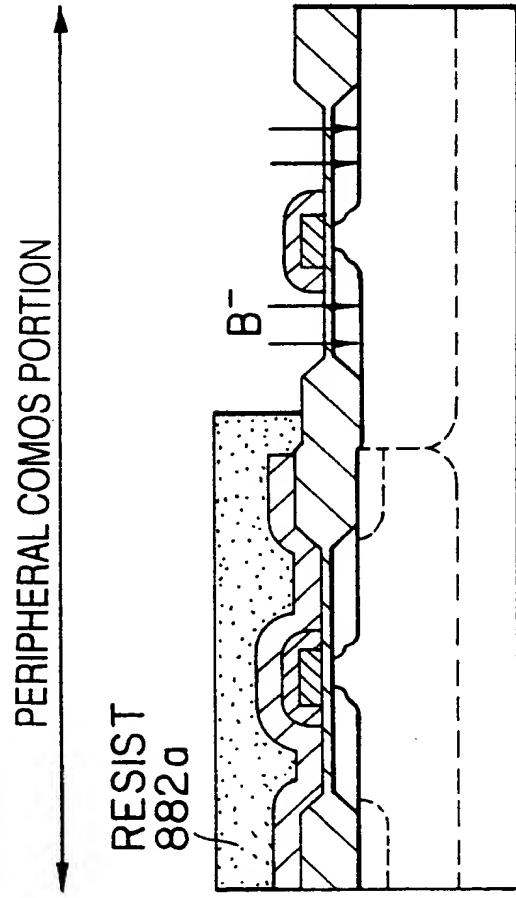


FIG. 8J-1

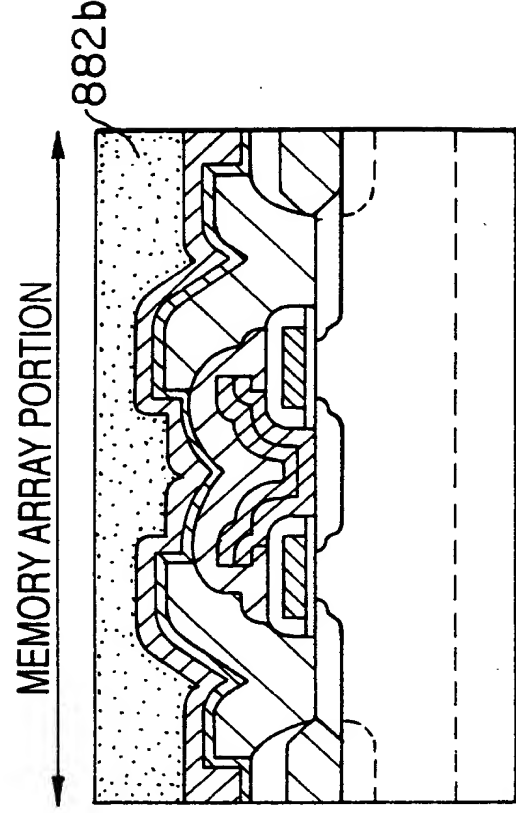


FIG. 8J-2

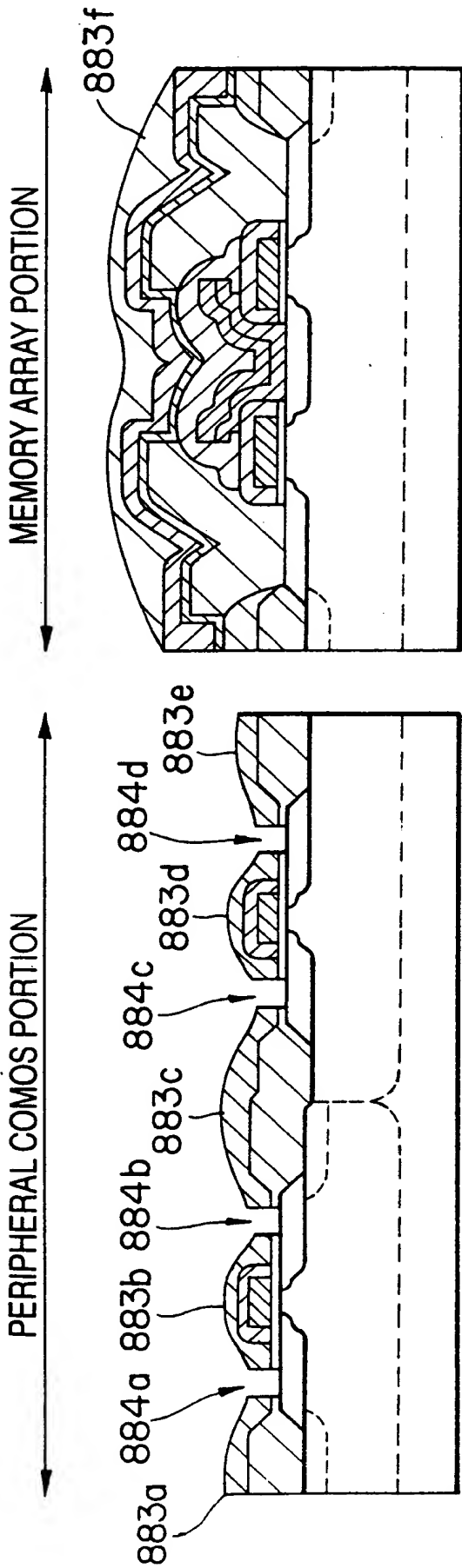


FIG. 8K-1

FIG. 8K-2

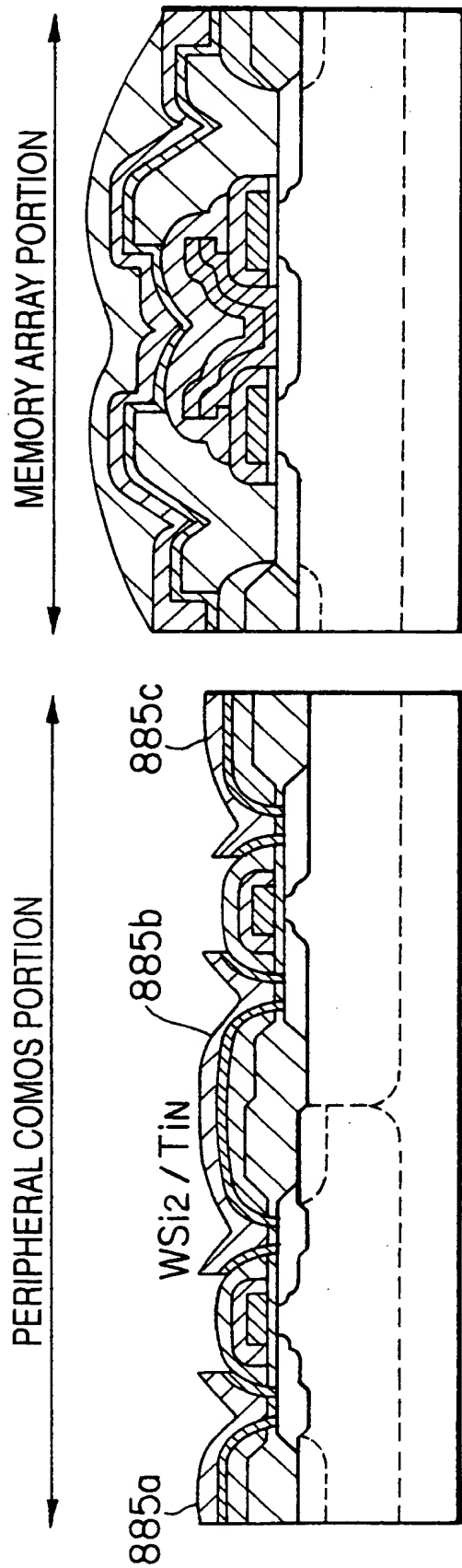


FIG. 8L-1

FIG. 8L-2

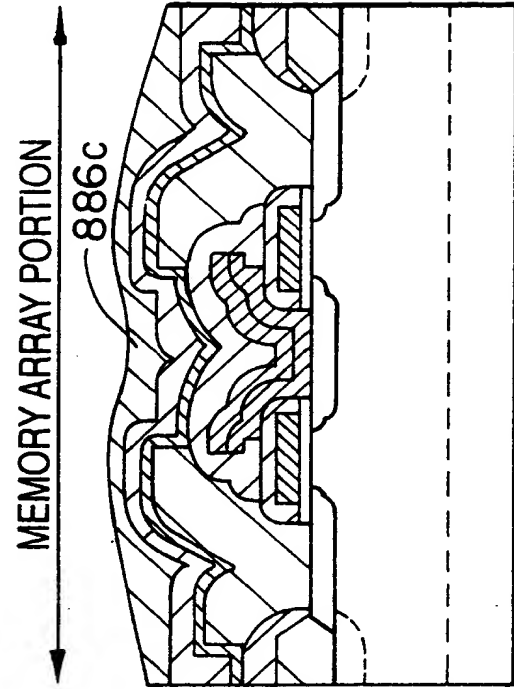


FIG. 8M-2

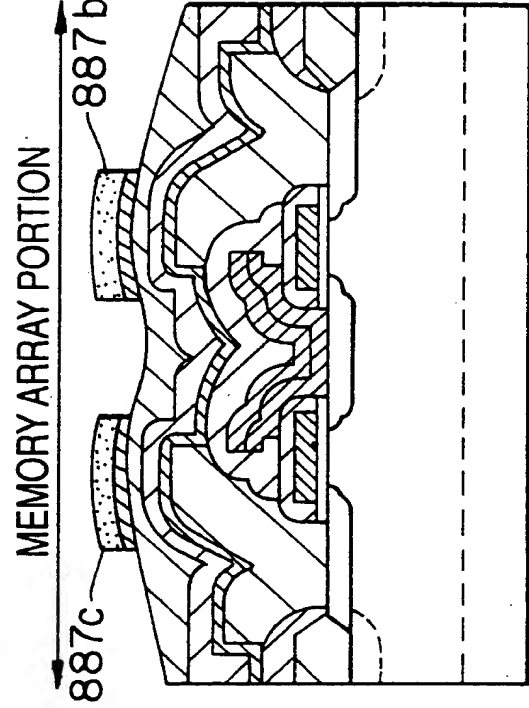


FIG. 8N-2

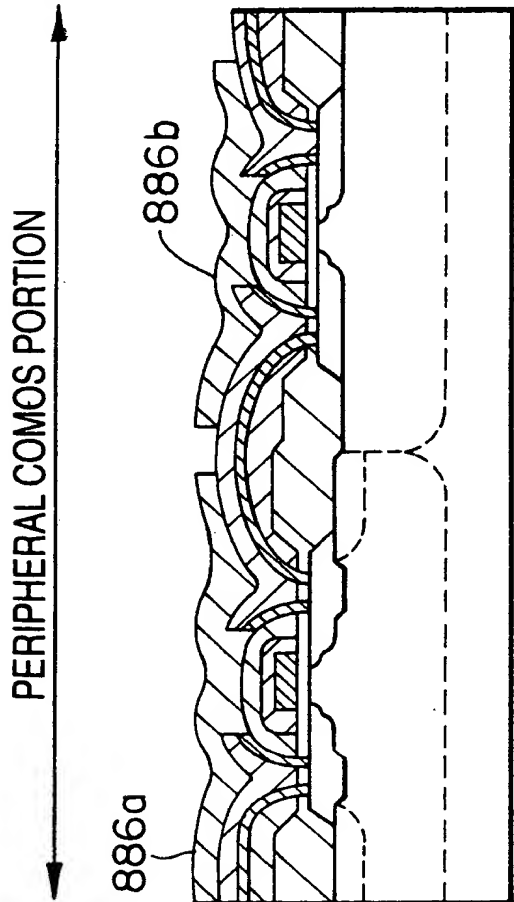


FIG. 8M-1

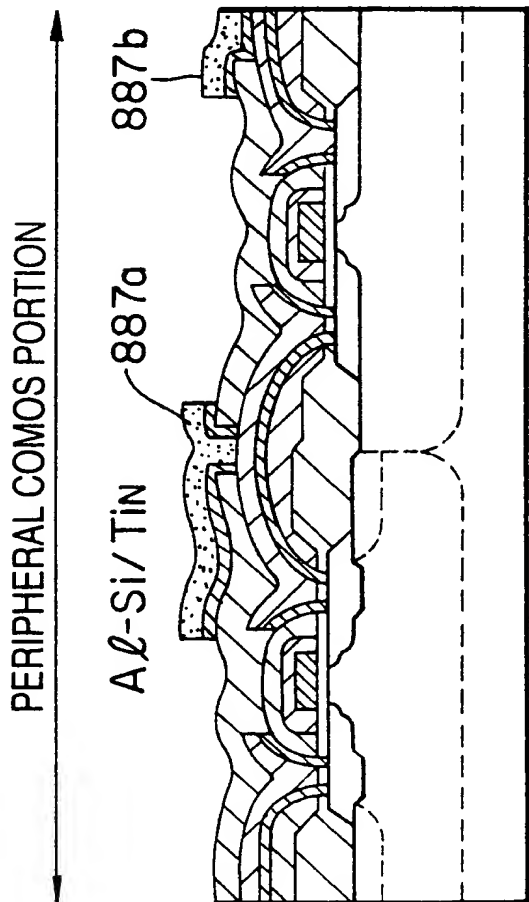


FIG. 8N-1

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

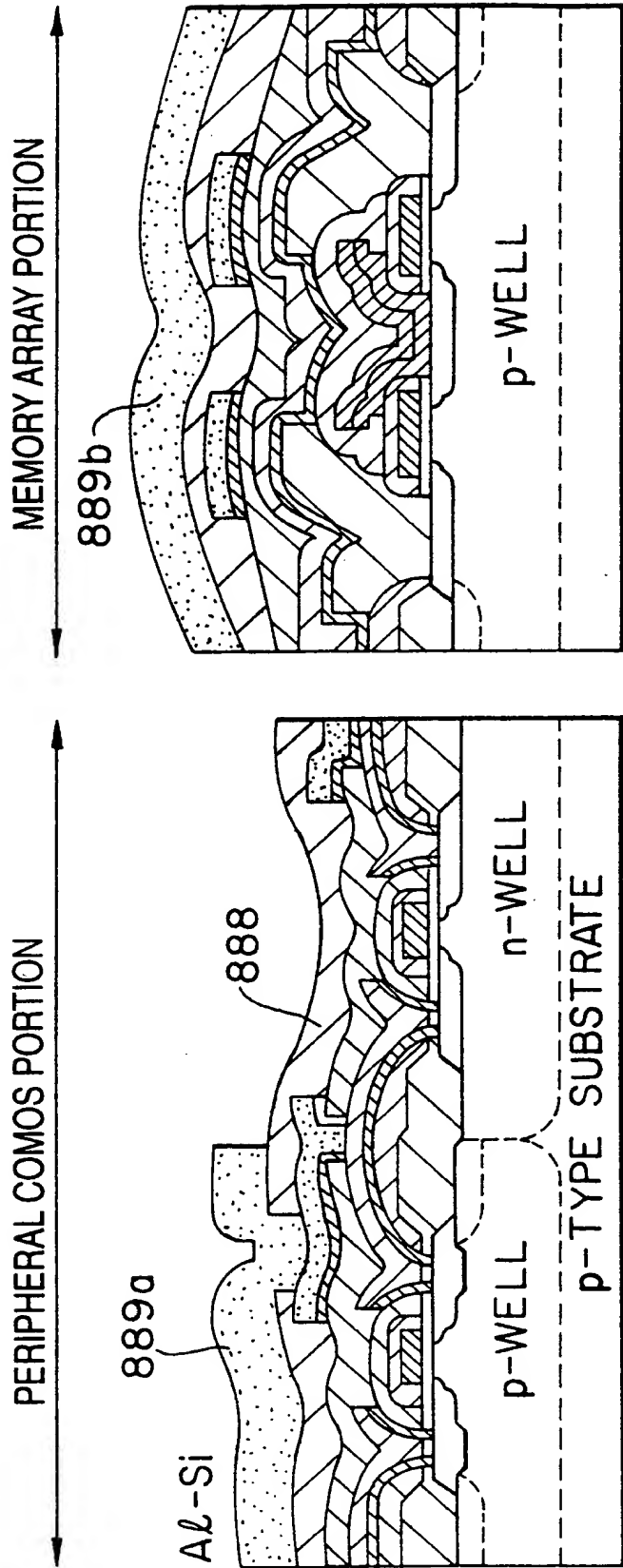


FIG. 80-1

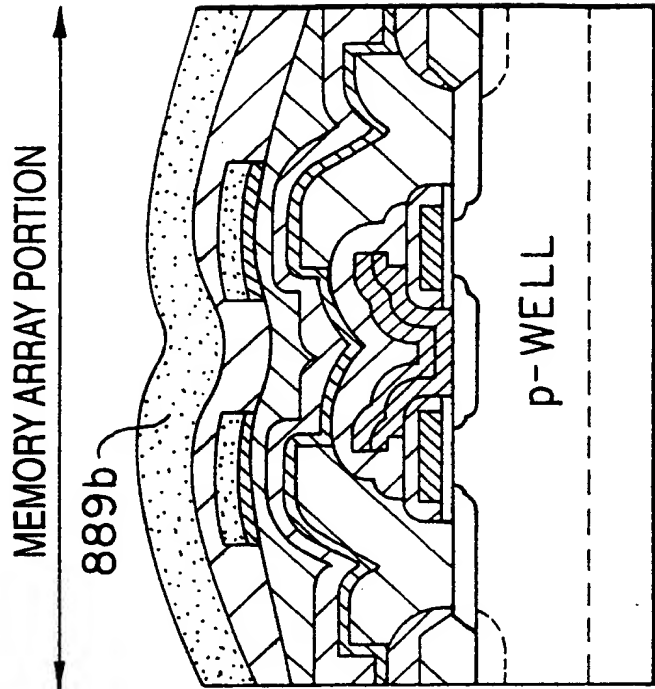


FIG. 80-2

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

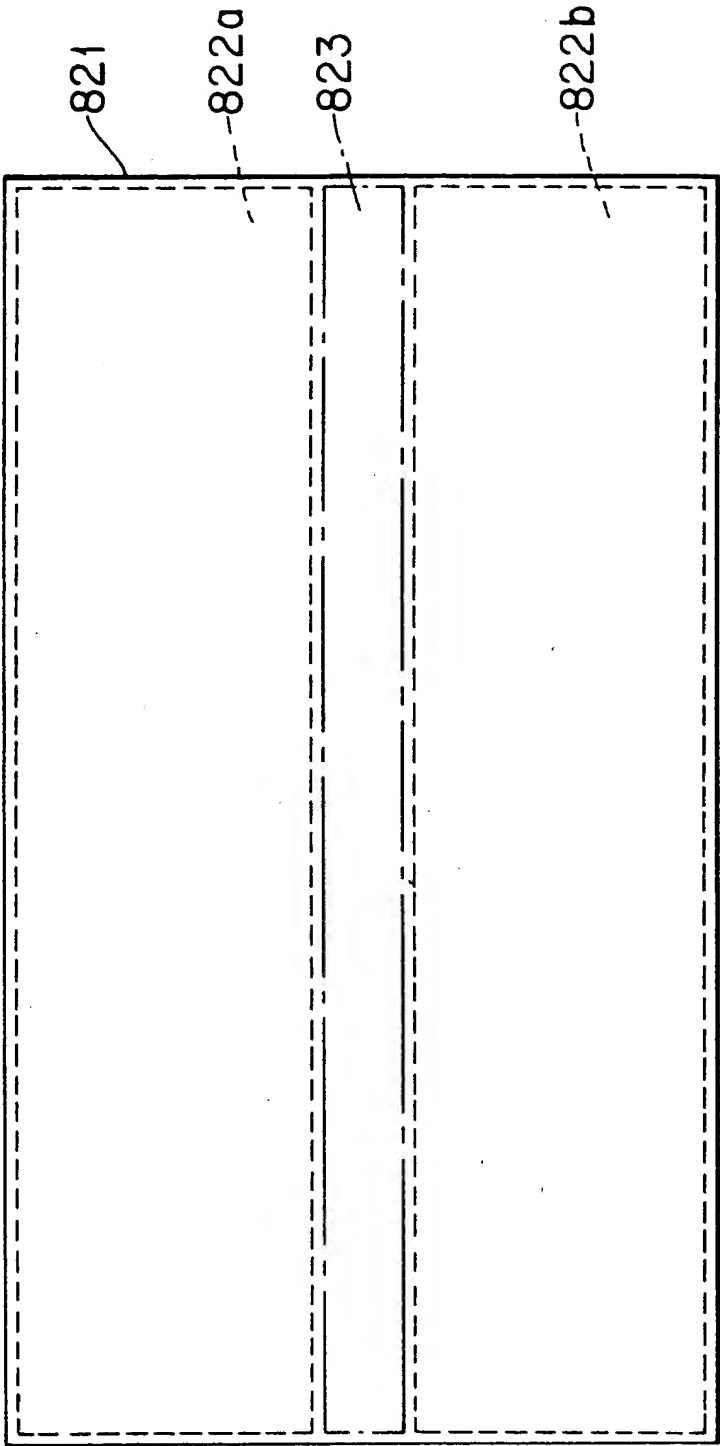


FIG. 8P

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

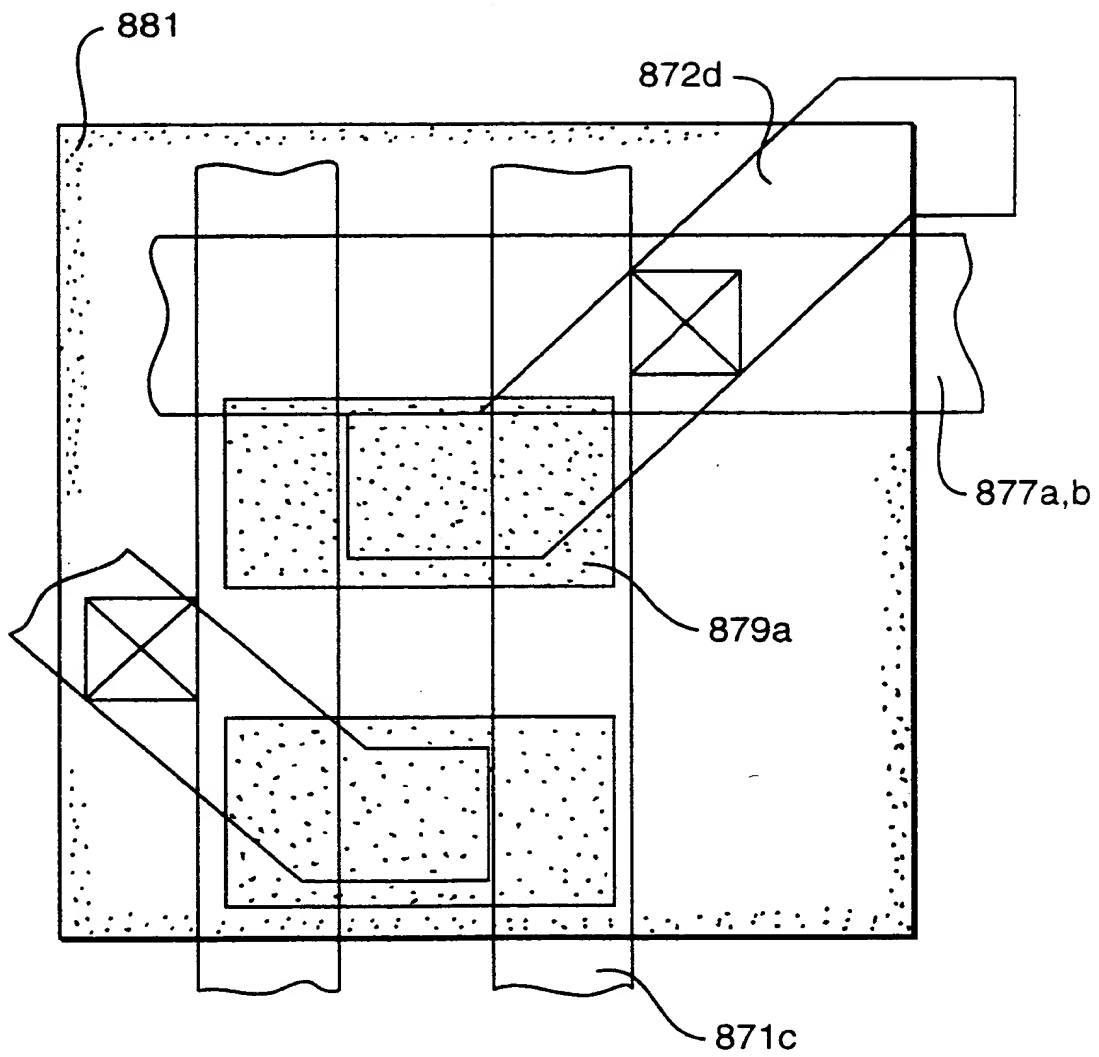


FIG. 8Q

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 9A

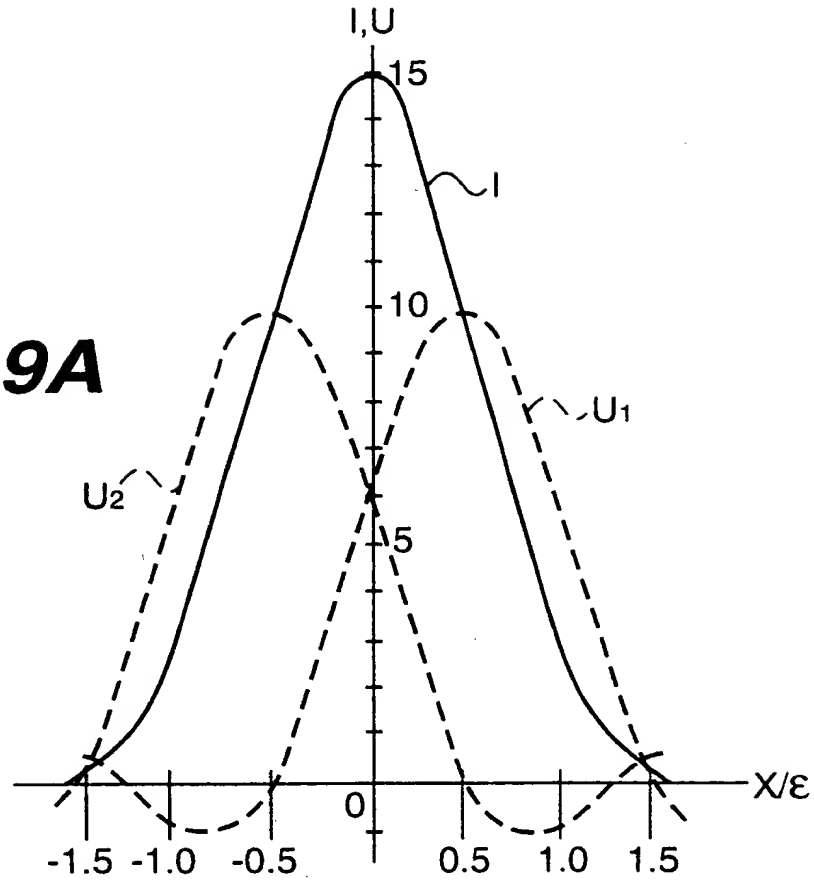
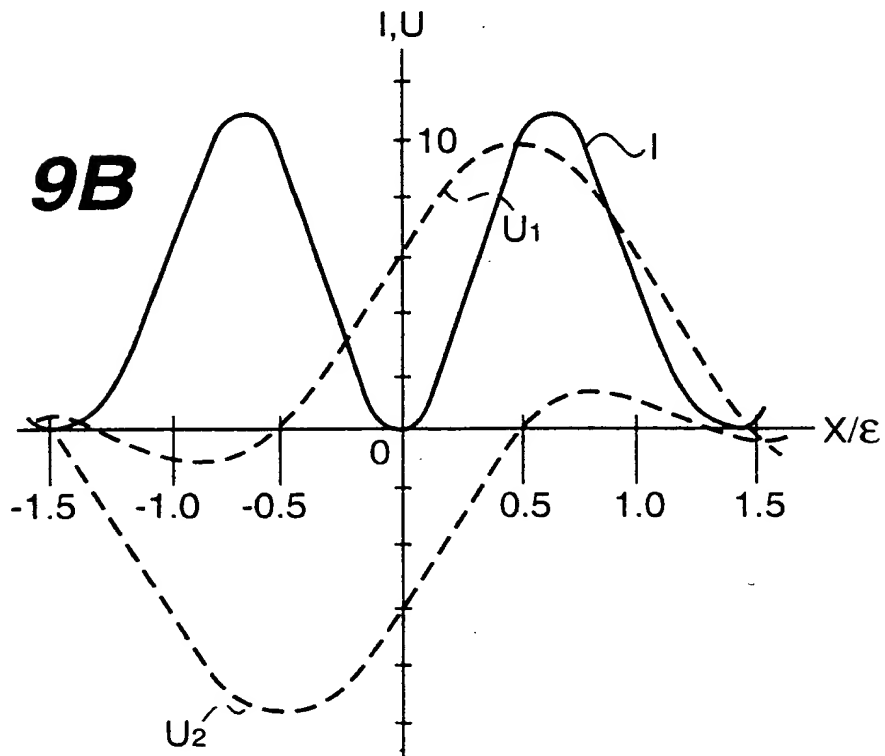


FIG. 9B



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

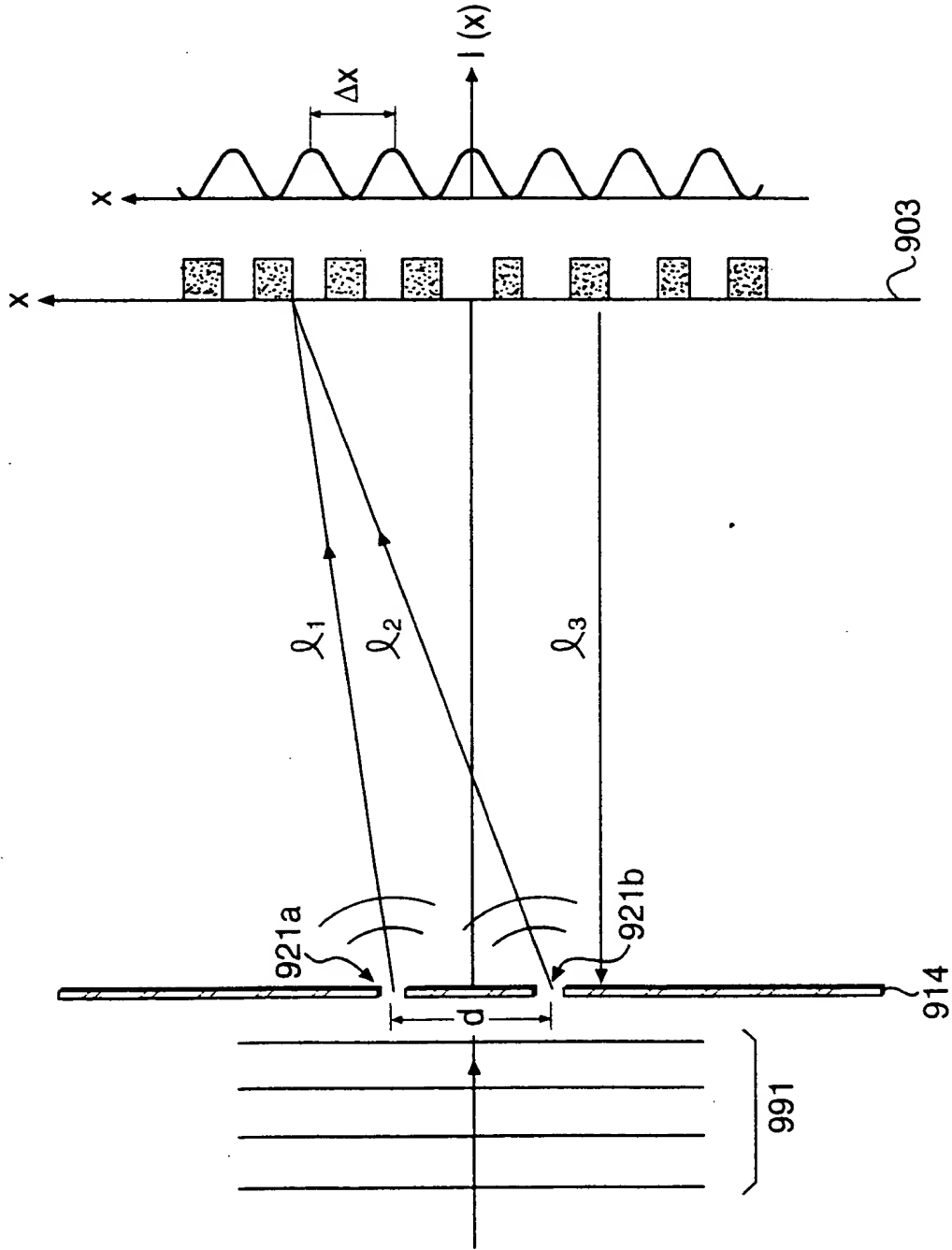


FIG. 9C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

CONDITIONS LINE SOURCE	CENTER WAVELENGTH	BAND WIDTH	PARTIAL COHERENCE	REMARKS
I-LINE OF HIGH - PRESSURE Hg LAMP	365 nm	7~10 nm	0.2~1.1	
KrF EXCIMER LASER	248 nm	ABOUT 0.001 nm	0.2~1.1	DEEP UV REGION
ArF EXCIMER LASER	193 nm	DITTO	0.2~1.1	DITTO

FIG. 10

ABBREV.	CHEMICAL FORMULA	POINT GROUP	TRANSMISSIVE RANGE (μm)
KDP	KH ₂ PO ₄	42 m	0.27 ~ 1.7
DKDP	KD ₂ PO ₄	42 m	0.2 ~ 1.6
ADP	NH ₄ H ₂ PO ₄	42 m	0.13 ~ 1.7

FIG. 20D

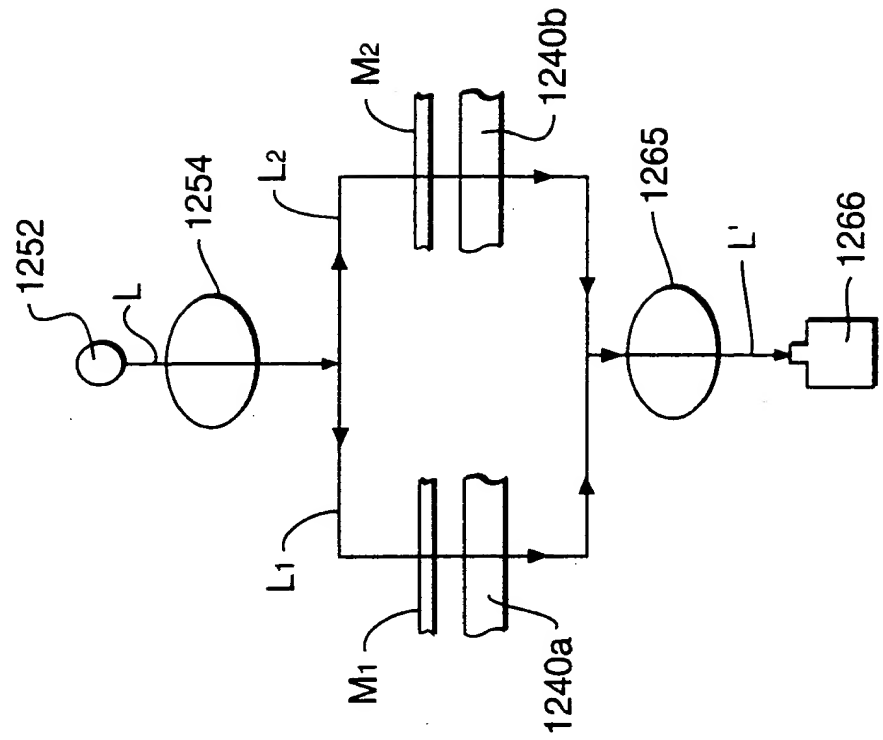


FIG. 12

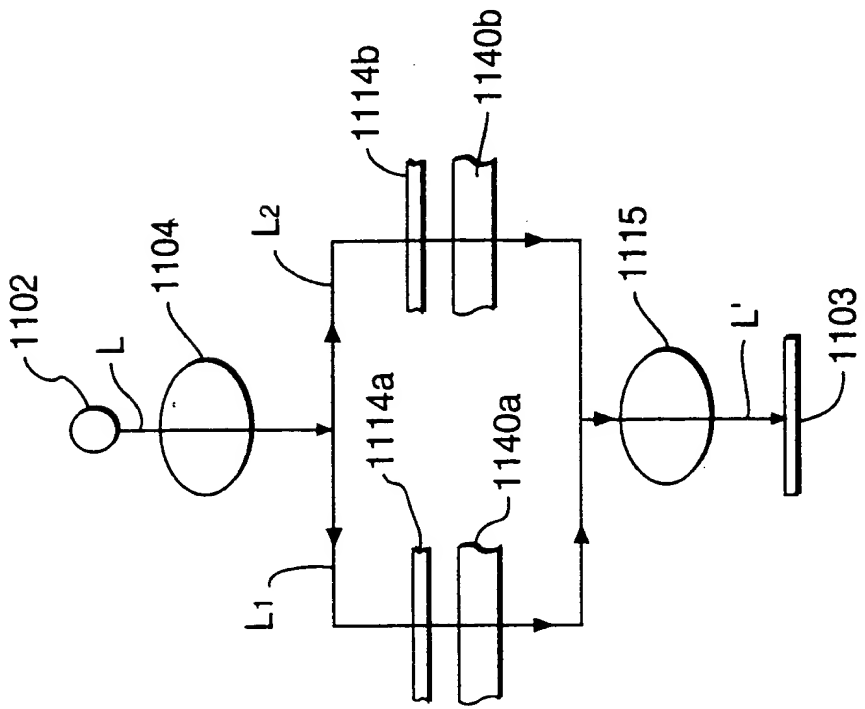


FIG. 11

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

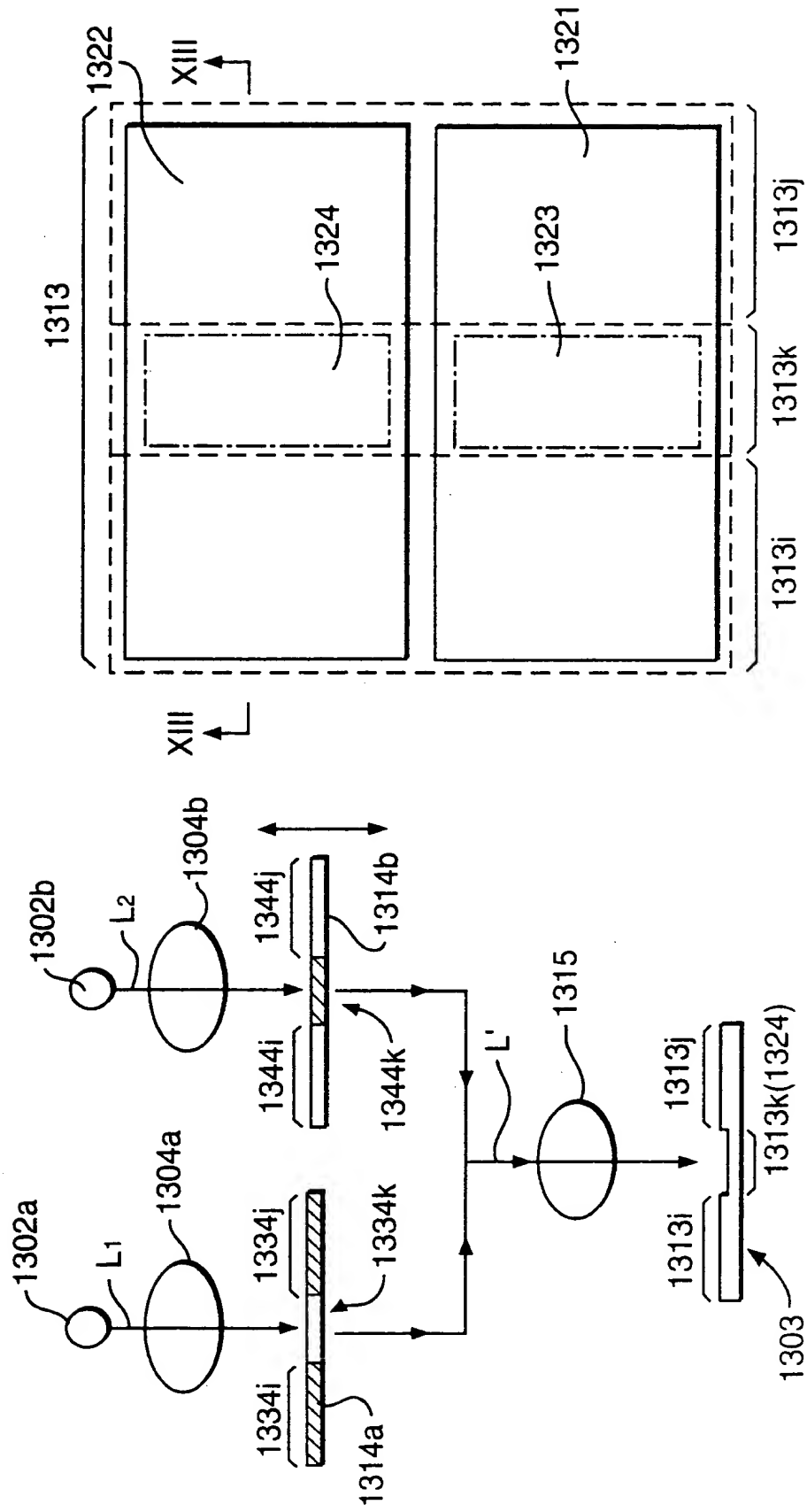


FIG. 13A

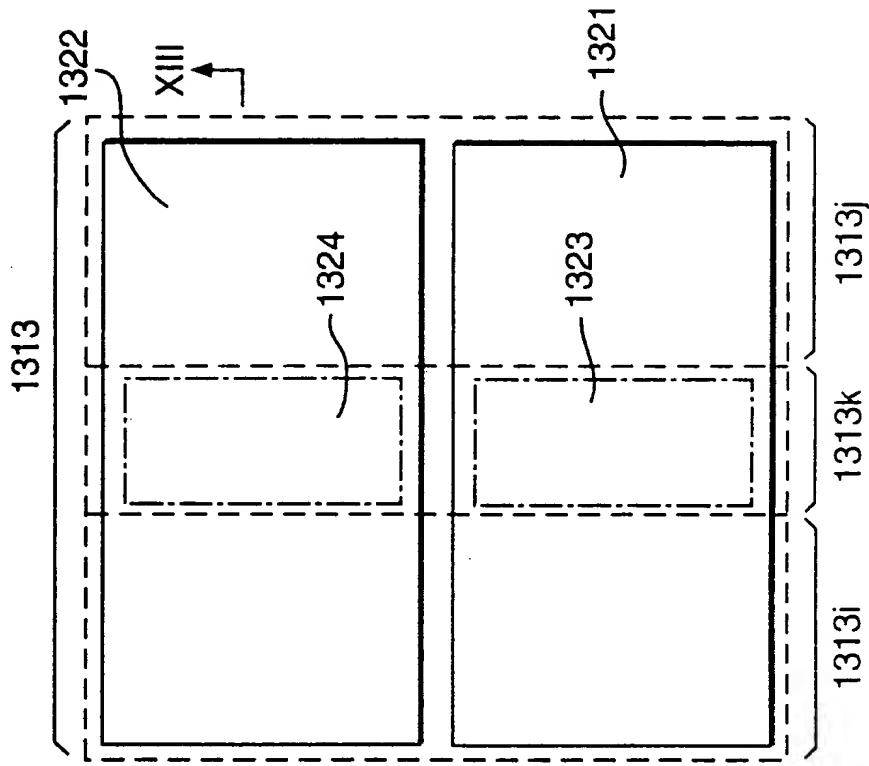


FIG. 13B

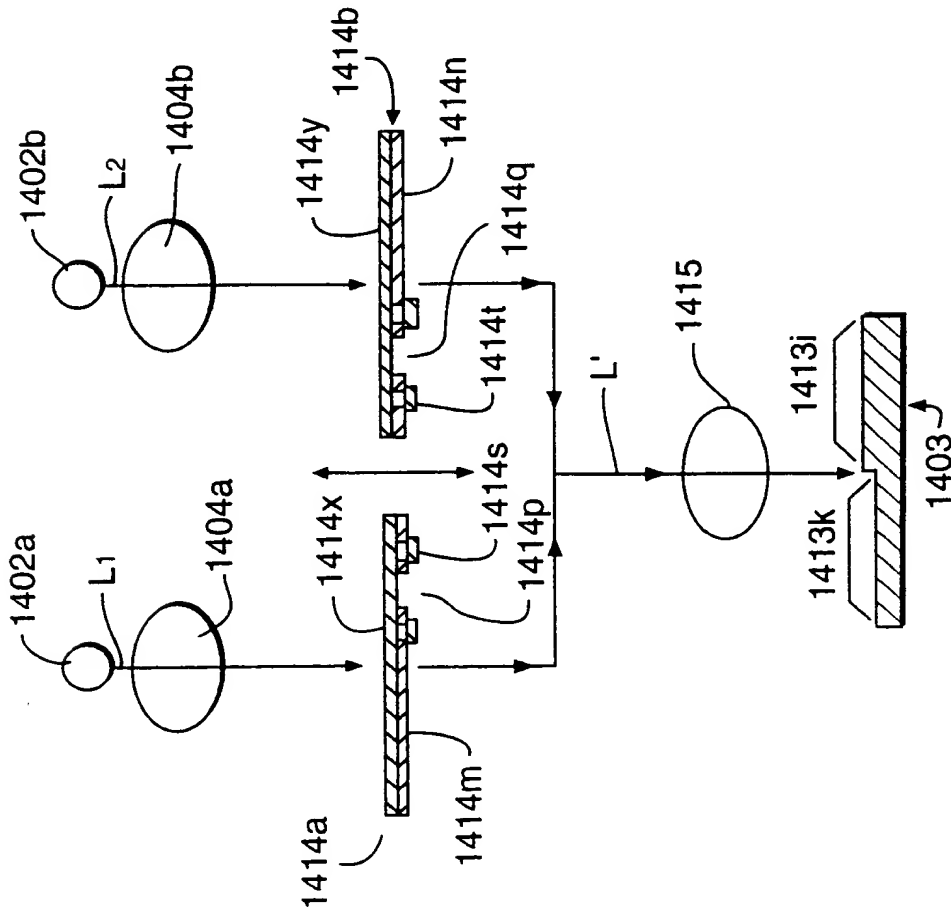


FIG. 14A

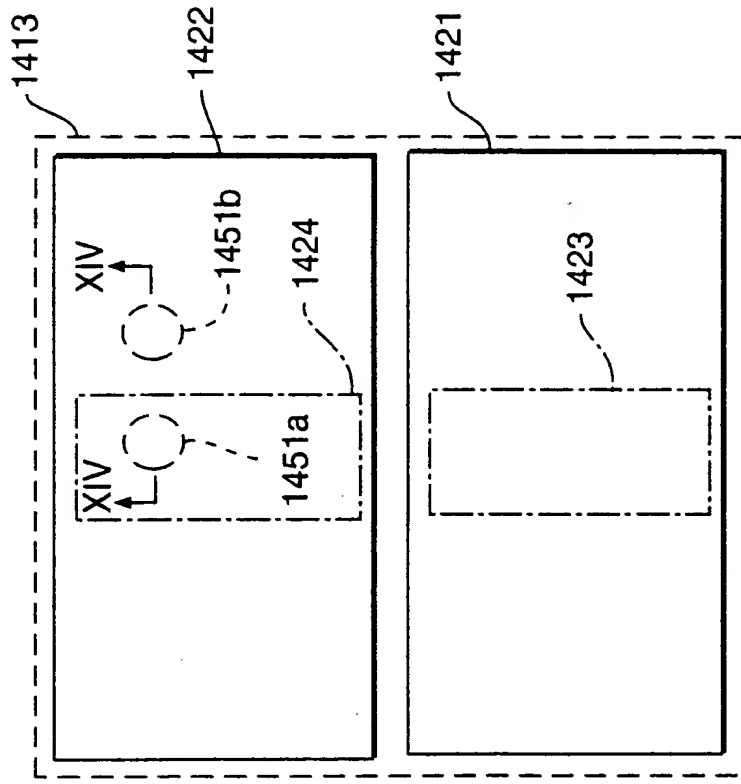


FIG. 14B

FIG. 14C

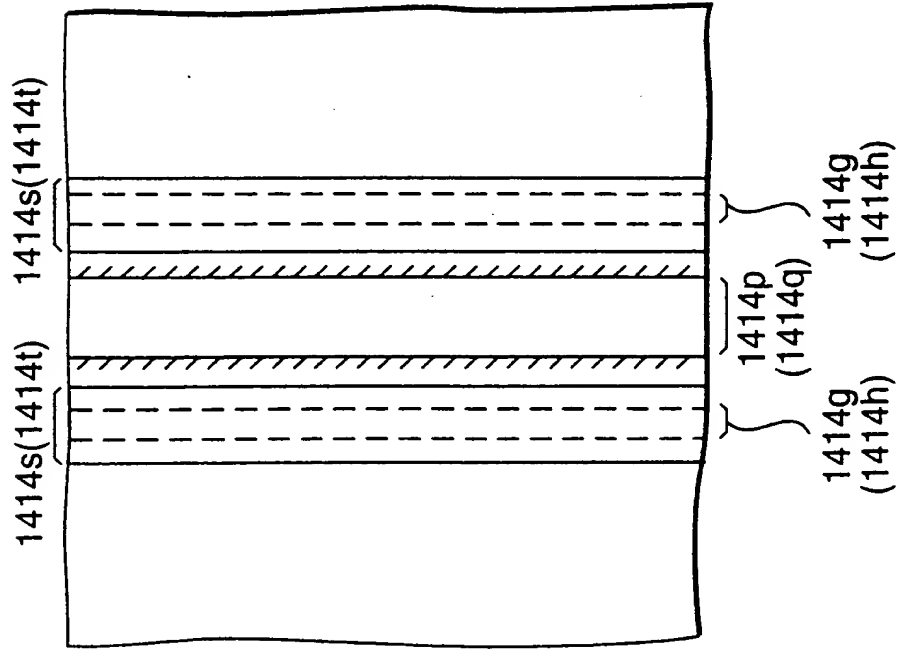
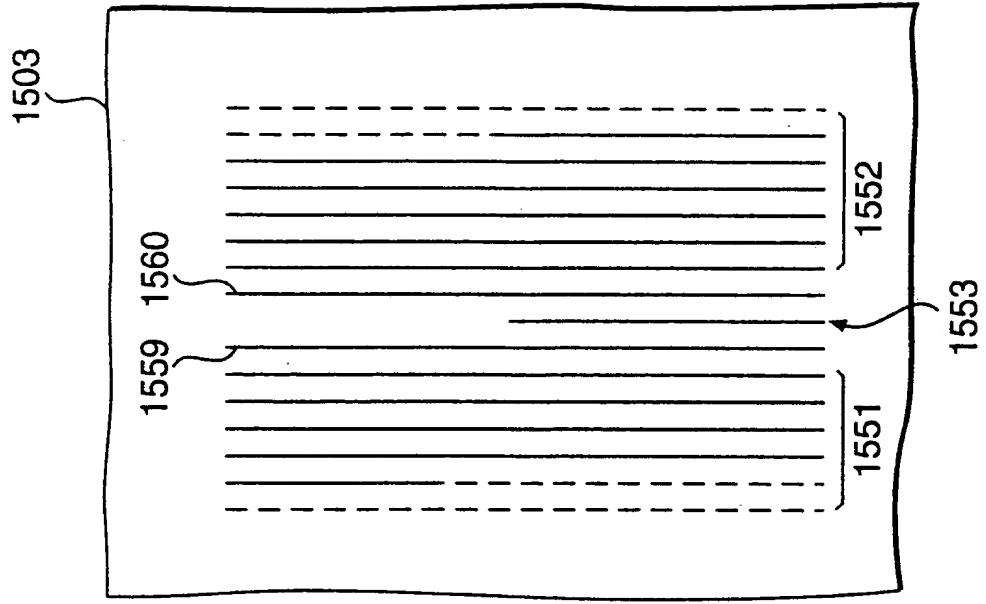


FIG. 15A



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

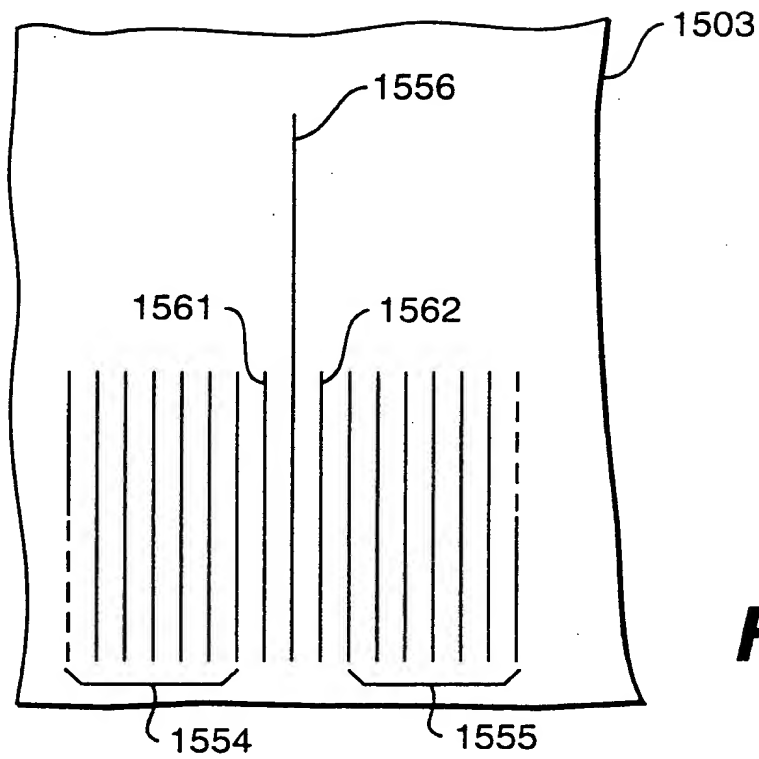


FIG. 15B

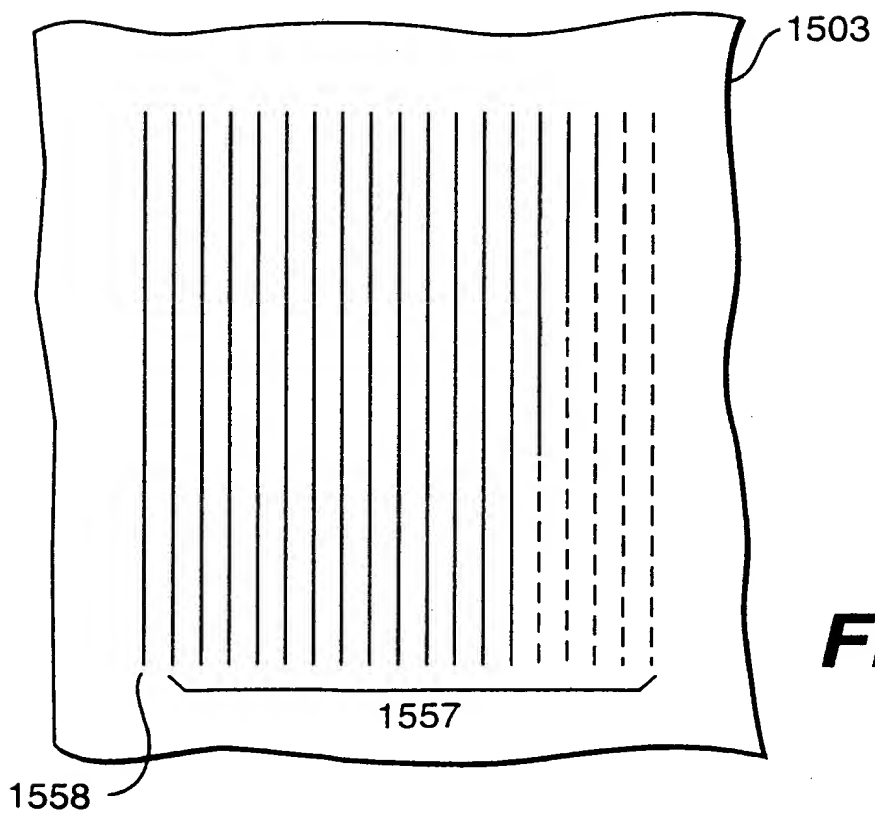


FIG. 15C

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

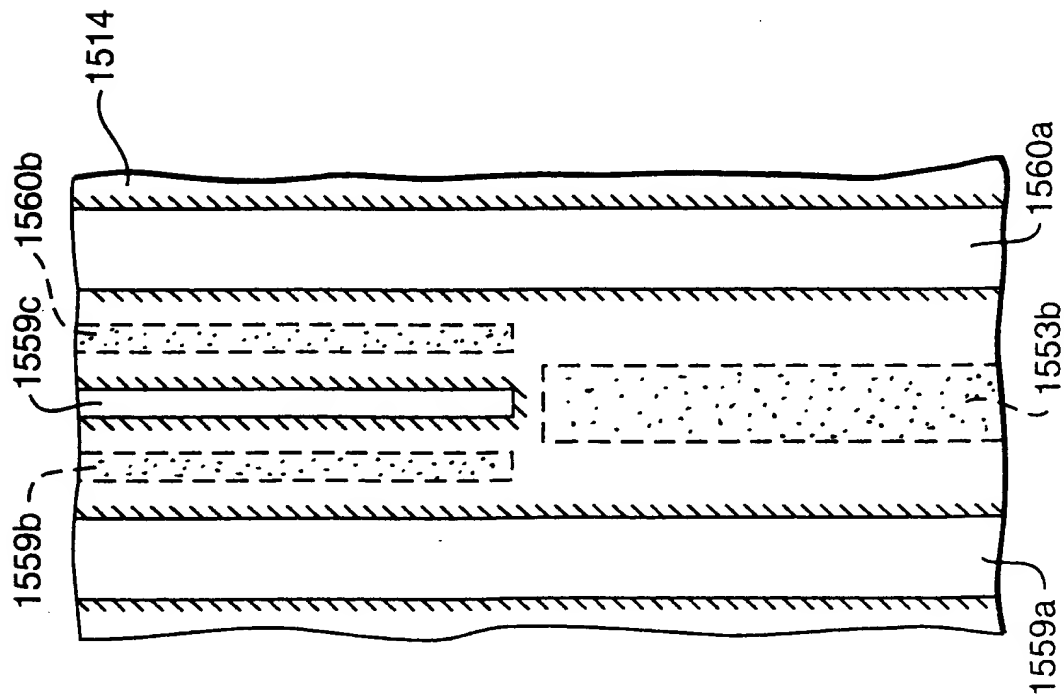


FIG. 15D

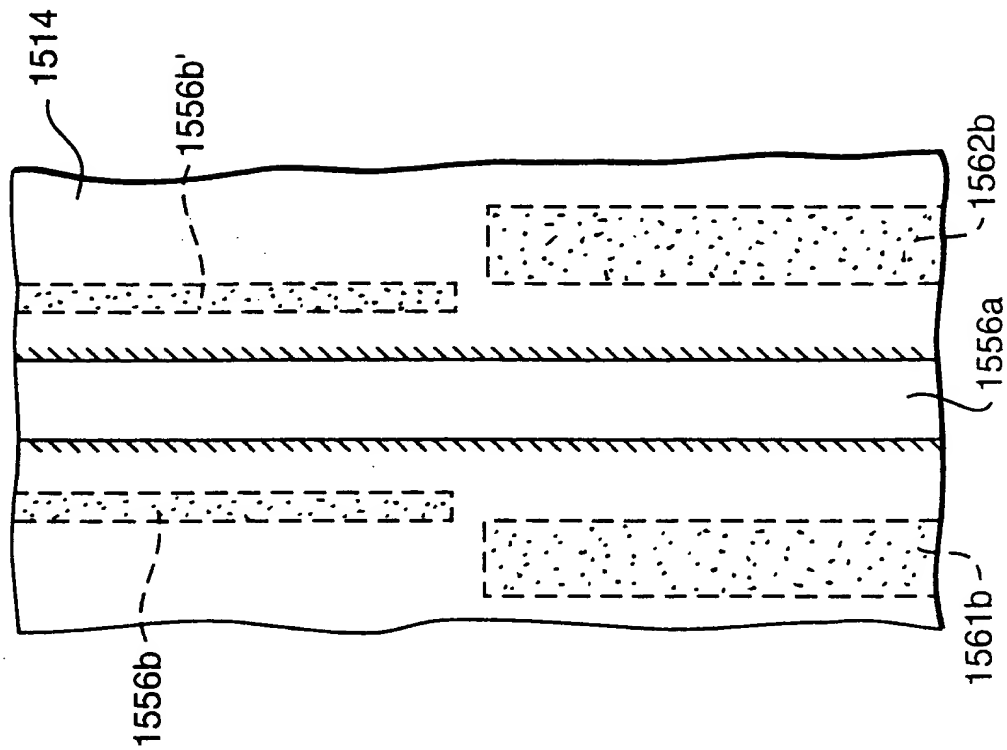


FIG. 15E

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

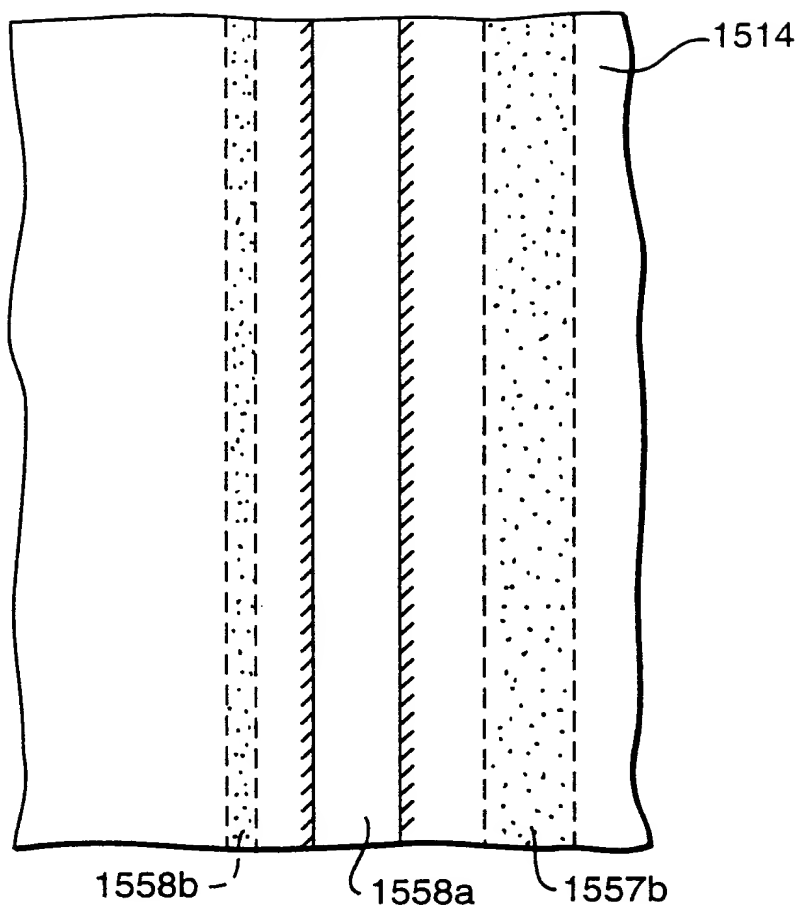


FIG. 15F

RESIST NAME EXPOSURE BEAM	POSITIVE RESIST	NEGATIVE RESIST
I-LINE (365nm)	① HITACHI KASEI [RAY CAST RI-7000P] ② SHIPLEY COMPANY INC. [TITAN LINE SERIES]	① HITACHI KASEI [RU1100N] ② TOKYO OHKA KOGYO [ONNR20 SERIES]
KrF EXCIMER LASER (248nm)	① POLYMETHYL METHACRYLATE (ABBREV. PMMA) ② SHIPLEY COMPANY INC. (MICROPOSIT)	① HITACHI KASEI [RD2000N] ② FUJI YAKUHIN KOGYO [LMR]

FIG. 16

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

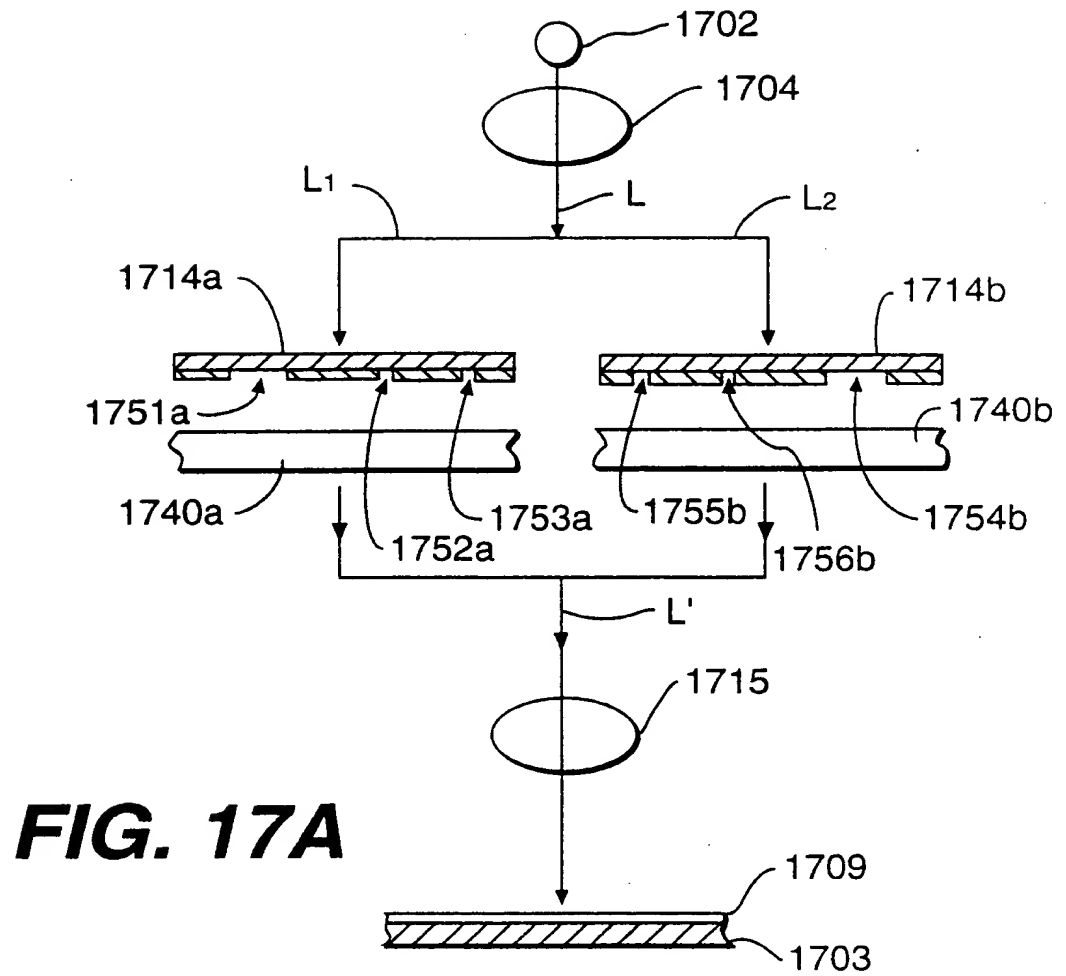


FIG. 17A

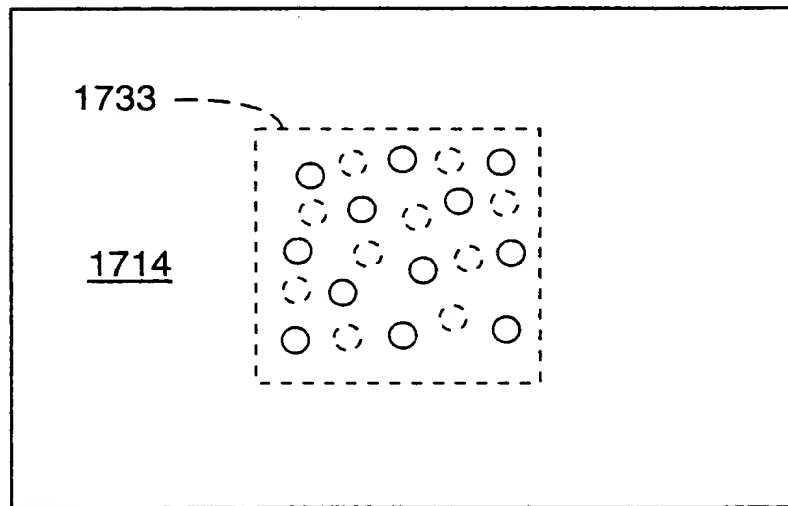


FIG. 17B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

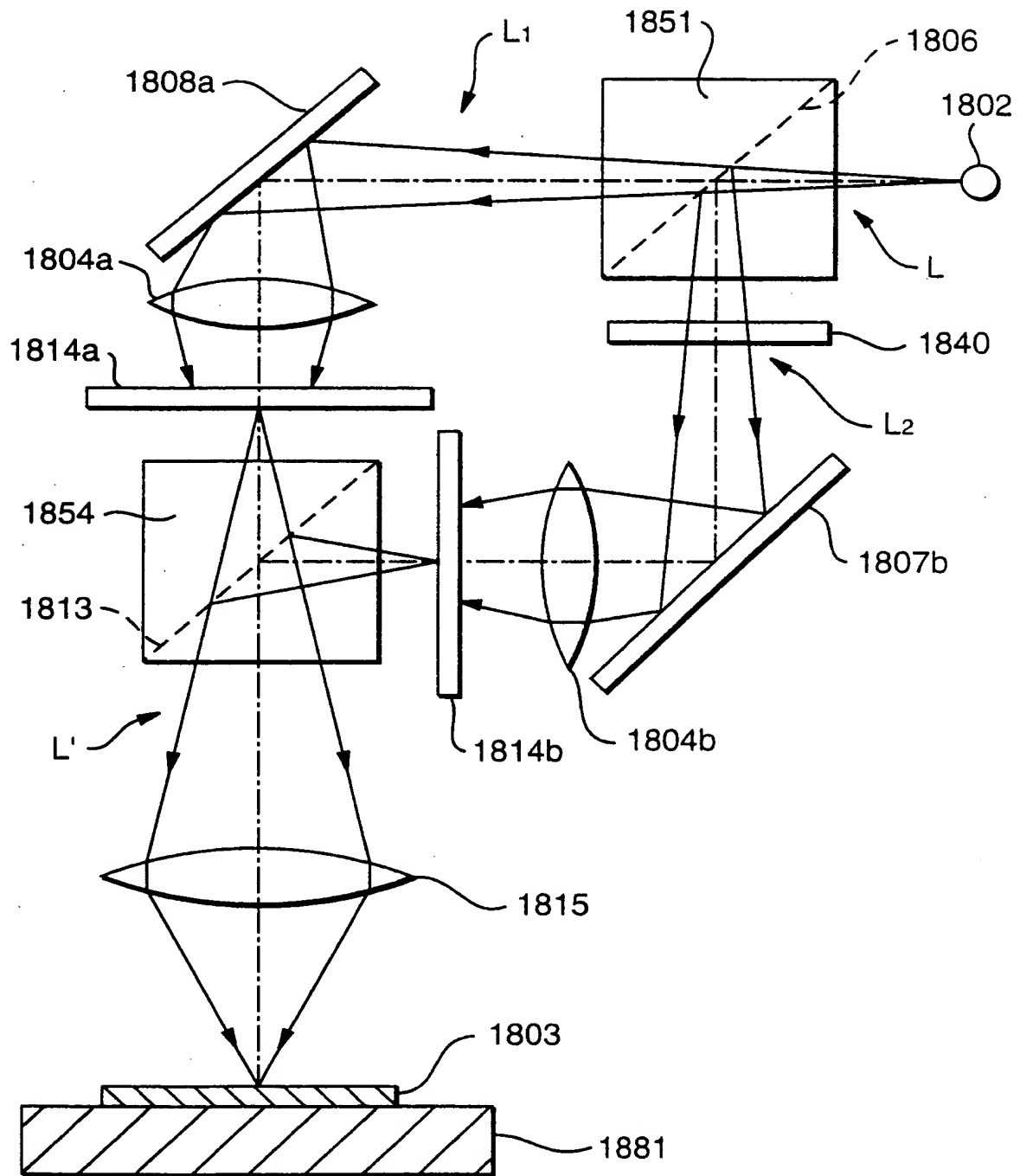


FIG. 18

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

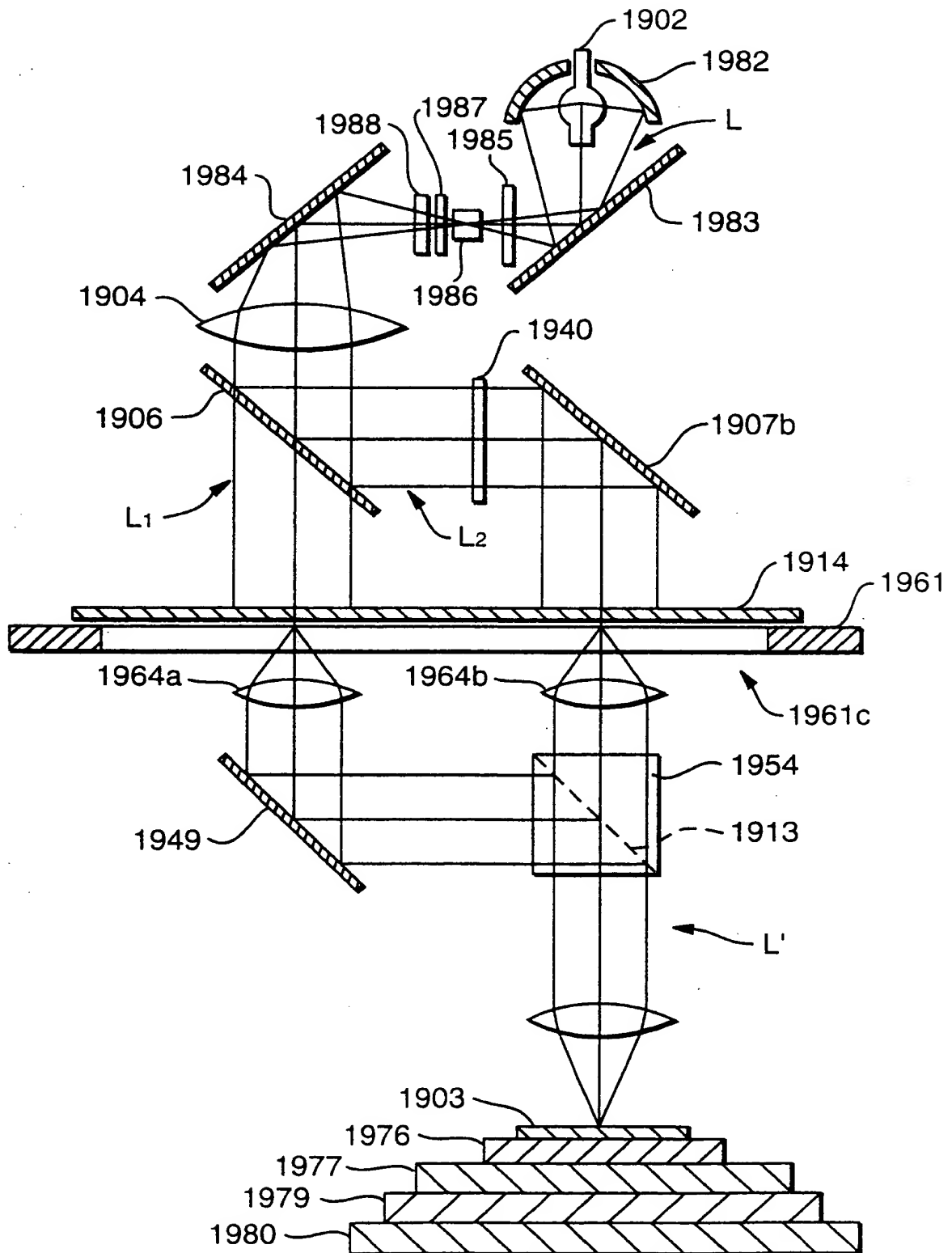


FIG. 19

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

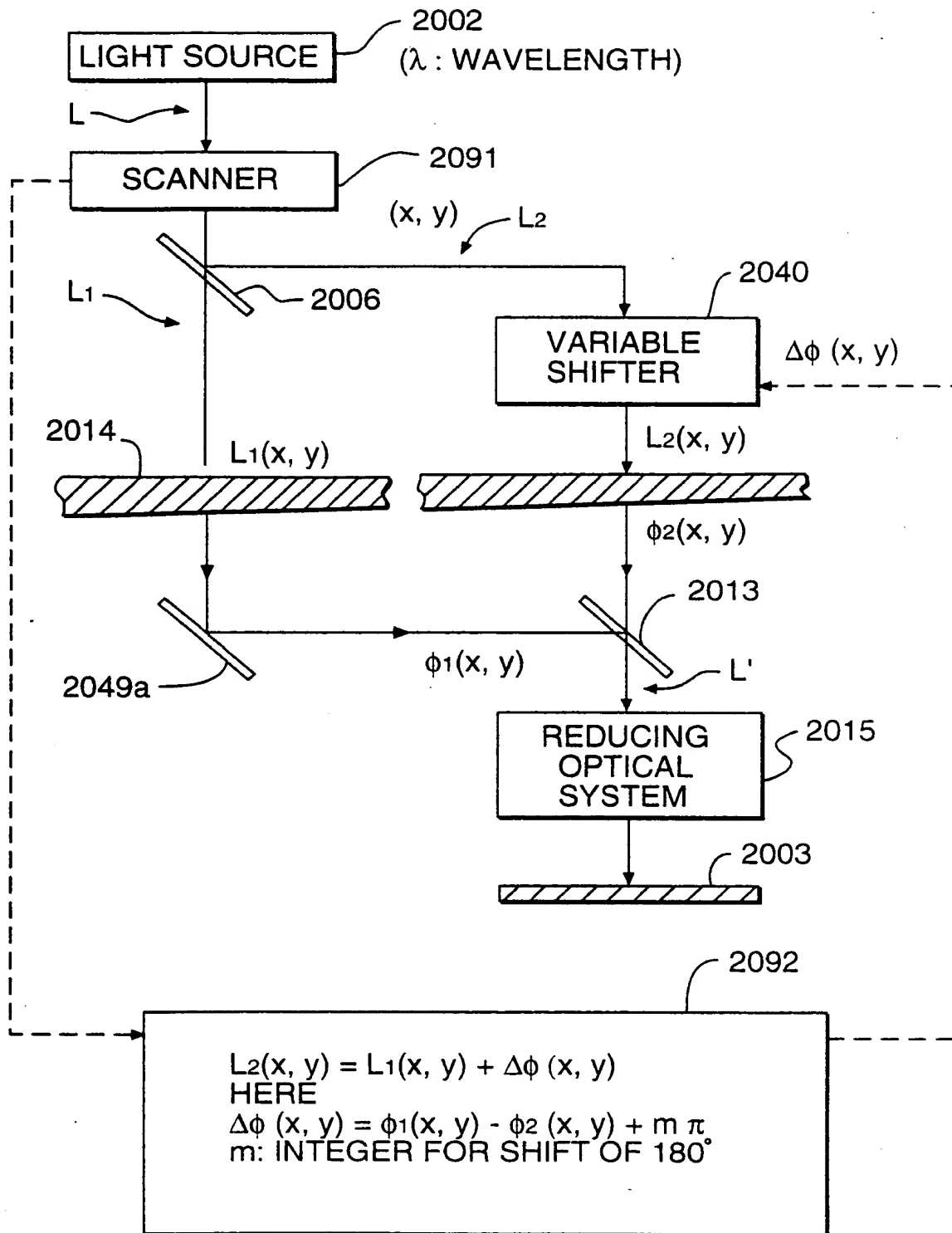


FIG. 20A

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

FIG. 20C

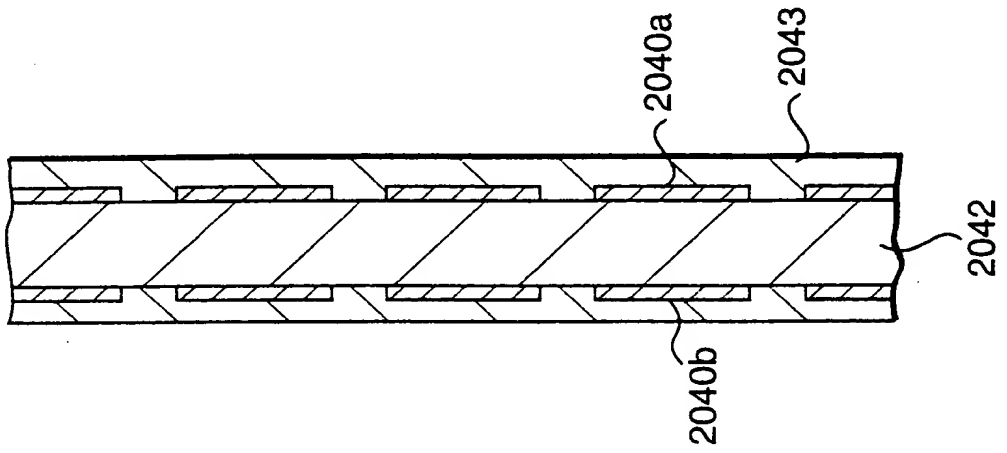


FIG. 20B

